



SNOWDONIA VISUAL IMPACT PROVISION PROJECT

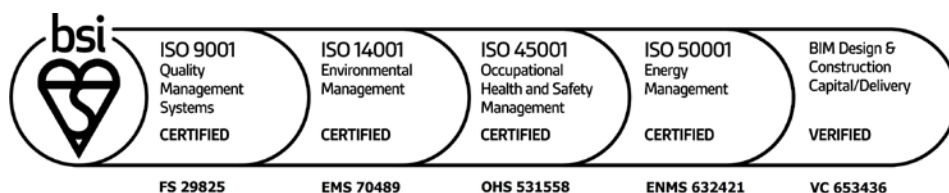
POLLUTION INCIDENT CONTROL PLAN

C0233-ATM-GES-XX-PL-X-0008 C03

	Name	Position (Role)	Signature	Date
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Revision History:

Revision	Date	Prepared	Checked	Approved	Reason for Issue
P01	10/05/2022	G Fullarton	A Hatton	T Lloyd	For NG acceptance
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C01	07/07/2022	P03 Accepted Code A by NG			P03 For construction subject to LPAs discharge of planning condition
(P03)	12/08/2022	SNPA/NRW comments on P03 received.			
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C03	11/10/2022	P04 Accepted by NG and LPAs			For construction



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EMS 70489

OHS 531558

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VC 653436

9.100.1.233	Pollution Incident Control Plan		
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1. Executive Summary

1.1. Purpose

The purpose of this Pollution Incident Control Plan (PICP) is to set out the procedures for pollution control and emergency response measures in the event of accidental spillage or leakage during construction on the Project. It specifically deals with events which may affect the water environment.

This PICP, which forms an Appendix to the Construction Environmental and Sustainability Management Plan (CE&SMP), identifies how the risk of pollution due to construction works, materials and extreme weather events will be controlled and identifies the remedial actions in the event of an incident.

1.2. Scope

This PICP has been prepared in accordance with the requirements of sections 1.1.4, 1.5.3, 2.6.3, and 2.7.6 of the Outline CEMP produced by National Grid (NG) and details:

- how incidents and adverse environmental effects are managed and the procedure to be followed in the event of an incident;
- the procedure for the notification of appropriate emergency services, authorities and personnel on the construction site;
- the procedure for the notification of relevant statutory bodies, environmental regulatory bodies, local authorities and local water and sewer providers;
- the locations of local emergency services facilities and other relevant authorities;
- persons responsible for pollution incident response;
- contact details of emergency incident response contractor;
- management of existing and new site drainage plans and flood risk management plans
- staff competencies, awareness, briefings and training.

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2. Project Overview

2.1 Project objective

The objective of the Snowdonia Visual Impact Provision (SVIP) Project is to mitigate the visual impact of existing electricity infrastructure in nationally protected landscapes in Great Britain. For the Client, National Grid (NG), which is the transmission owner in England and Wales, this means mitigating the effects of existing infrastructure on the visual amenity and landscapes of National Parks and Areas of Outstanding Natural Beauty (AONB).

The SVIP Project relocates a section of the 4ZC OHL underground within, and adjacent to, Snowdonia National Park.

The SVIP subsection runs from NG's existing Garth Sealing End Compound (SEC) near Minffordd (to the east of Porthmadog) across the Dwyryd Estuary where it enters the western edge of the Snowdonia National Park to Pylon 4ZC27. It then continues past the small settlement of Cilfor. This VIP subsection is approximately 3.4km in length. The Project lies within the administrative boundaries of Gwynedd Council (GC) and Snowdonia National Park Authority (SNPA).

2.2 Project scope

HOCHTIEF (UK) Construction Ltd (HTUK) are responsible for the Tunnel contract and will carry out the detailed design, supply, installation, and commissioning of the works which include but are not limited to:

- Environmental and ground investigation surveys
- Temporary access routes (with potential highways improvements) and construction compounds/ laydown areas to facilitate construction activities.
- Testing and monitoring
- Driveshaft (Garth) 15m ID, 25m deep complete with back shunt and fore shunt including secant piles and ground improvements
- A 3.4km long segmentally lined tunnel of minimum 3.5m internal diameter (ID) between the Garth and Cilfor shafts,
- Reception shaft (Cilfor) 12.5m ID, 62.5m deep including secant piles and ground improvements
- Tunnel lighting, ventilation, and bracketry
- Installation of two high voltage (400V) electrical circuits, one to be operated at 400kV and one at 132kV
- Electrical circuit connections to be reconfigured and extended at Garth sealing end compound (SEC) and new Cilfor SEC.
- Permanent shaft headhouse buildings including foundations, structural steelwork, roofing, cladding and internal fit out.
- Permanent access from each headhouse to the end of the tunnel.
- Perimeter security including fencing, gates, CCTV
- External works including access roads, drainage, lighting
- Utility diversions, protection, and new supplies
- Landscaping and planting
- Testing and commissioning

All dimensions are approximate and may be subject to change as the project design develops

Please note the OHL works are being delivered by others under a separate contract with NG and are outside the scope of the HTUK Tunnel contract and this Plan.

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3.0 Pollution Prevention

3.1 Mitigation measures

The construction works on this Project are being undertaken in and around Snowdonia National Park, a designated Area of Outstanding Natural Beauty (AONB). HTUK is respectful of the need to ensure that we protect the areas in which we are operating, and strict controls shall be put in place to prevent any pollution incidents

Spill kits/ pollution control equipment will be available within all construction compounds, the site office and in all works vehicles. Spill kits will be suitable for the type of pollutants expected to be present on the site. Locations of site spill kits will be marked on the site location plan within the Risk Assessments and Method Statements (RAMS) and communicated during site inductions. Each spill kit will include a contents list that will be checked during audits.

Site based spill kits will include suitable PPE, absorbent pads, socks, boom and cushions, sealant putty slab or mats and approved hand-held dispersant sprayer. Submersible skirt containment booms will also be held within the site compound.

Contaminated spill material will be appropriately stored and labelled prior to disposal in accordance with the Site Waste Management Plan and spill kit material will be replaced immediately from stock retained on site. Following any pollution incident, our Site Supervisor will assess quantities of remaining spill kit stocks on site and order replacement as required.

Sections 4.5 (Water Management) and 4.6 (Pollution Prevention) of the CE&SMP identify further project specific guidance to reduce and where possible avoid pollution on the Project including drainage, flooding, plant & machinery, deliveries, refuelling, fuel storage, disposal of contaminated waste, and emissions to water. Activity specific Risk Assessments and Method Statements will also provide further information regarding pollution mitigation. In addition, HTUK policy 00000-HUK-GHS-XX-PC-Z-0016 Pollution Prevention shall be referenced in the production of Method Statements and Risk Assessments.

3.2 Further reading

The following references are not mandatory but provide industry best practice additional guidance and information to supplement this procedure.

- CIRIA C648 Control of water pollution from linear construction projects, 2006 and accompanying site guide (CIRIA C649)
- CIRIA C532 Control of water pollution from construction sites. Guidance for consultants and contractors, 2001

Guidance for Pollution Prevention (GPPs) - as per table below (available at Netregs): [Guidance for Pollution Prevention \(GPPs\) - Full list | NetRegs | Environmental guidance for your business in Northern Ireland & Scotland](#)

Title	Details
GPP1: Understanding your environmental responsibilities	An introduction to pollution prevention including containment, waste, and emergency planning.
GPP2: Above ground oil storage tanks.	This will advise the correct storage of oils across the areas for permanent and temporary works, particularly within the proposed SEC and contractor compounds to minimise the risk of causing pollution.

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Title	Details
GPP5: Works and maintenance in or near water.	Given the proximity of several streams and ponds to the proposed areas of temporary and permanent works there is the potential to cause pollution, transfer non-native species and impact on the bed and banks of a watercourse.
PPG 6: Working at construction and demolition sites.	An overarching document providing best practice principles and examples to be used as guidance on how to prevent pollution.
PPG 7: Safe Storage – the safe operation of refueling facilities	Including guidance on small scale liquid refueling of plant and machinery on site to prevent damage to surface waters, ground water, land, and air.
GPP8: Safe storage and disposal of used oils.	The correct handling of waste during the construction period, including waste oils, must be safe and secure. Waste minimisation is the preferred option. Waste is regulated under the Duty of Care Regulations. Oil storage is regulated under the Oil Storage Regulations (see GPP2).
GPP13: Vehicle washing and cleaning.	Effluent and run-off from vehicle washing and cleaning can damage the environment and pollute rivers, streams, and ground water. It may be a legal requirement to arrange the collection and disposal of effluent and run off. If vehicle wash areas are required on site these should be managed appropriately.
GPP19: Vehicles: Service and Repair.	The repair and maintenance of machinery and plant must be conducted in an appropriate location and properly managed.
PPG 20: Dewatering underground ducts and chambers	Protection of controlled waters during any dewatering works to avoid pollution.
GPP21: Pollution incident response planning.	Production of a plan will help to prevent or reduce environmental damage of such an incident occurs. A template is available to assist the production.
PPG 26: Safe Storage – drums and intermediate bulk containers (IBCs)	Good practice guidance for the safe storing and handling of small containers and IBCs to reduce the risk of pollution from sites to land, surface waters and ground water.

4.0 Pollution Incident Response Plan

4.1 In the event of an incident

A Pollution Incident is an occurrence that requires an immediate response to prevent and control damage to the environment. This plan sets out the courses of action that is required following a pollution incident.

In summary, the procedure is:

- **STOP** – prevent further spillage by stopping the flow, righting the drum, turning off the tap etc.
- **CONTAIN** – by using sand or earth, absorbent pads, booms, or skimmers or digging trenches etc.
- **REPORT** - all pollution incidents to a member of the HTUK site team, who will take the appropriate administrative action.

Stage	Action	Responsibility
1	Stop the Spill if you can by standing up the drum, stopping the flow, turning off the tap etc. as appropriate, decant any remaining liquid into a secure vessel and label. Try not to stand in the spill.	All site staff/ site supervisor
2	Contain the spillage using an appropriate spill kit, so preventing the spillage from spreading and/or entering a drainage system or water course.	All site staff/ site supervisor
3	Inform the site supervisor (Incident Controller for major if major pollution incident) who will take charge of the process and ensure the spill has been effectively stopped and contained.	All site staff
4	Escalation the site supervisor/ Incident Controller will inform: <ul style="list-style-type: none"> • Environmental Manager • Ecological Clerk of Works • HTUK Project Director • NG Project Manager (within 1 hour) 	Site supervisor/ Incident Controller
5	Assess the risk that the spillage poses to: the health and safety of people on site and in the surrounding vicinity; and the environment	All site staff/ site supervisor
6	Assess whether the spillage can be cleaned up by site staff or if a major pollution incident requires specialist contractor (DARCY GROUP 01732 441019)	Site supervisor/ Incident Controller
7	As appropriate inform the Emergency Services local police, Natural Resources Wales (NRW), water supplier. NRW must be informed in the event of a spillage entering a live drainage system or watercourse (use 24hour Incident Hotline Number: 0300 065 3000). All assistance should be provided to the authorities should they attend site. HTUK must be notified immediately of any such event.	Site supervisor/ Incident Controller

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Stage	Action	Responsibility
8	Obtain the appropriate PPE (in accordance with the material COSHH sheet and the nature of the clean-up works to be undertaken).	All site staff/ site supervisor
9	Clean up the spill using the appropriate spill kit. Treat all material in contact with the spill as contaminated.	All site staff/ site supervisor/ specialist contractor
10	Re-assess the situation. Do you have the appropriate PPE? Have all of the relevant parties been informed?	All site staff/ site supervisor/ specialist contractor
11	Decontaminate the site and all personnel that have come into contact with the spill. Dispose of PPE, all contaminated materials and the used spill kits as hazardous waste.	All site staff/ site supervisor/ specialist contractor
12	Replace the spill kits used and remove all contaminated material.	Site supervisor
13	Project Director and SHESQ Manager will instigate an investigation into the occurrence of the incident. An action plan will be prepared to determine why the incident occurred and whether any modifications to working practices are required to prevent a recurrence. If necessary, the CE&SMP, PICP and Construction Phase Plan will be updated (and any other plans as appropriate) and all workers will be notified.	Project Director/ HSQE Manager

Contact details for HTUK supervisors will be maintained on the SHE Notice Board(s) and identified during start of shift briefings.

Incident reporting shall be carried out in accordance with HTUK procedure 0000-HUK-GHS-XX-PC-Z-0021 Incident and Accident Reporting Investigation and NG INV01.

4.2 Contact details for relevant statutory authorities and emergency services

As detailed in section 3.1 where applicable the site supervisor will contact the relevant local statutory authorities and emergency services. These are displayed on the 'Locations of Emergency Services Plan' included in Appendix B. The nearest locations are detailed below.

Name	Address	Tel:
Fire Station	Porthmadog Fire Station, Porthmadog, Gwynedd, LL49 9HR	01745 535250 Emergency 999
Police Station	Porthmadog Police Station, High Street, Porthmadog, Gwynedd, LL49 9NU	0300 3300101 Emergency 999
Hospital (minor injuries)	Ysbyty Alltwen, Tremadog, Gwynedd, LL49 9AQ	0300 0850027 Emergency 999

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Name	Address	Tel:
Hospital (24h A&E)	Ysbyty Gwynedd, Penrhosgarnedd, Bangor, Gwynedd, LL57 2PW	01248 384384 Emergency 999
Natural Resources Wales	Government Buildings, Arran Road, Dolgellau, Gwynedd, LL40 1LW	01341 424800 24hour Incident Hotline: 0300 0653000
Water and Sewer Provider	Dŵr Cymru Welsh Water Fortran Road, St Mellons, Cardiff, CF3 0LT	Water Emergency 24h: 0800 0520130 Sewer Flooding & Sewer Emergency: 0800 085 3968
Local Authority Environmental Health Department (Garth)	Dwyfor Area Office, Ffordd y Cob, Pwllheli, LL53 5AA	01758 704 125 llygredd@gwynedd.llyw.cymru
Local Authority Environmental Health Department (Cilfor)	Snowdonia National Park Authority National Park Office Penrhyndeudraeth Gwynedd LL48 6LF	01766 770274 park@snowdonia.gov.wales

A map of the most direct route to the Accident & Emergency Department will be maintained on the SHE Notice Board(s).

4.3 Emergency response contractor

The 24/7 emergency response contractor for dealing with significant incidents requiring expert response is Darcy Group, who also supply specialist equipment and will support HTUK in the event of a major pollution incident.

DARCY GROUP 01732 441019

Upon noticing a spill and before calling identify where possible, the type of product and volume spilt. This is essential information to ensure an efficient and effective response.

- Dial the Darcy emergency response service on 01732 441019.
- Provide details on the product spilt, volume, location.
- Decide whether you require their full management service or product only service.
- Issue an authorisation number to approve pre-agreed call out charge.
- They will contact their Darcy approved spill contractor and provide all the information necessary.
- The contractor will call you, or the appointed contact, confirming time of arrival and provide their contact details.
- The contractor will assess the scene and recommend the optimum method of control, containment and clean up.

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From initial telephone call the Darcy Group approved contractor aims to be on site within two hours. Advice and support will be provided by Darcy Group over the phone until the approved contractor arrives on site.

4.4 Drainage plans and flood risk management plans

Copies of site drainage plans and flood risk management plans will be available on site and kept up to date for reference in case of a pollution incident. On the plans the surface water systems will be colour coded blue and the foul water system red.

The site drainage plans will be included in the Emergency Plan and will be made available to the emergency services.

The design of the drainage will pay particular attention to the need to ensure that the drains do not act as pathways for contamination or cause flooding off-site. Good practice and mitigation measures are detailed within section 4.5 of the CE&SMP.

Manhole covers will be colour coded for ease of identification on site as follows.

- Surface water – Blue.
- Foul water – Red.

4.5 Competence, training & awareness

All personnel commencing work on the site, including subcontractors, shall attend an induction training course. The course shall include training in the following areas:

- Environmental legislation and its relevance to this project
- Individual environmental responsibilities and environmental constraints to specific operations.
- Areas of environmental sensitivity, how activities may affect them, methods, and timing necessary to protect them and activities to be avoided. Any buffer zones that are in place must be enforced and maintained at all times.
- Procedures and equipment to use in case of an incident.

Occasional Visitors and delivery drivers will receive a tailored site induction that is pertinent to their visit. Regular visitors to site must undergo full site induction

Task Briefings and Toolbox talks (at least one per month should be environmental) shall be provided to the workforce at the relevant time to supplement the induction. Records shall be kept showing the names of all personnel attending induction courses, Task Briefings, and Toolbox Talks.

Members of the site team who have specific SHE responsibilities, will be provided with the necessary training to undertake their roles. Some roles may require a level of professional competence to be demonstrated. Refer to Appointment of Key Personnel with SHE Responsibilities -00000-HUK-GHS-XX-PC-Z-0048

Refuelling activities shall be conducted by appointed designated personnel who have received spill training and shall be competent to deal with any incidents in according with HTUK procedures. All deliveries must be supervised throughout the operation.

All drivers shall keep a 'grab bag' of absorbent products in their cab for immediate use in the event of a spill or leak. The 'grab bags' will form part of the regular vehicle/environmental

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inspection regime and will contain the appropriate pads, together with protective gloves and a blue disposal bag. All plant operators will receive spill response training as part of their induction.

An environmental response team made up of site personnel will be established and they will receive training from Darcy Group particular around incident management in vulnerable areas or during high risk activities.

4.6 Incident Controller

A suitable number of Incident Controllers (minimum of one per site per shift) shall be appointed in accordance with 00000-HUK-GHS-XX-PC-Z-0048 Appointment of Key Personnel with SHE Responsibilities, with responsibilities for liaison, supervision, and control in the event of an emergency. Adequate support staff shall assist the post holder, who shall be issued with a mobile phone. A nominated deputy shall deputise in the absence of the Incident Controller. The security guarding company shall provide 24-hour cover on site and shall retain a copy of the emergency telephone list.

In the event of an incident or emergency, the Incident Controller's primary responsibility is the safety of all employees and of any visitors who may be present at the site area and the environment. To achieve this, the Incident Controller's role is making the tactical decisions necessary to bring under control any incident or emergency that may have occurred. In this role supported by the senior staff, the post holder shall work in unison with senior officers from the emergency services, each of whom shall have a similar role within their own organisations. Working together, this group shall exercise tactical control over all parties involved in the emergency

4.7 Incident Reporting:

All environmental incidents will be reported using the HART system, in accordance with 0000-HUK-GHS-XX-PC-Z-0021 Incident and Accident Reporting Investigation and NG INV01.

The NG Project Manager will be notified within one hour of an incident occurrence.

Environmental incidents will be classified as follows:

ENVIRONMENTAL INCIDENT CLASSIFICATION	
Major	<p>Resulting in significant impact requiring management by external authorities and/or high level of resources for response & remedy e.g. contamination of controlled waters or watercourse.</p> <p>Issue of statutory enforcement notice by local authority, NRW or EA</p> <p>Felling of a tree protected by a TPO</p> <p>Significant damage to SSSI or other designated area requiring extensive remedial measures to resolve</p>
Significant	<p>Requires significant resources to resolve, may be a breach of legislation that could lead to regulatory action</p> <p>Reportable to authorities e.g. fuel tank spillage resulting in ground or water contamination</p> <p>Disturbance or harm caused to protected species</p> <p>Causing or potentially causing the spread of invasive species</p> <p>Breach of environmental legislation</p> <p>Breach of consent conditions</p>
Moderate	Requiring management response to aid recovery

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	A complaint regarding environmental impact from construction activities affecting residents or those working in the vicinity of the site (e.g. noise, mud on the road, dust etc)
Minor	Does not require significant resources to resolve and is unlikely to result in legal action e.g. minor oil drips Dust or waste blowing off site Uncontrolled site run-off or unpermitted discharge Wildlife found on site, possibly injured but not because of construction activities

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5.0 Associated Procedures and Forms

The documents listed in the table below are those directly related to this document.

Name	Reference Number
00000-HUK-GHS-XX-PC-Z-0021	Incident and Accident Reporting Investigation
00000-HUK-GHS-XX-PC-Z-0016	Pollution Prevention
00000-HUK-GHS-XX-GD-Z-0036	Operation Guidance Note: HOCHTIEF Active Reporting Tool (HART)
00000-HUK-GHS-XX-PC-Z-0048	Appointment of Key Personnel with SHE Responsibilities
C0233-HUK-GES-XX-PL-W-0001	Construction Environment & Sustainability Management Plan

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6.0 Terms and Definitions

The table below defines frequently used acronyms and abbreviations within this document.

Table 1: Definitions

Abbreviation / Acronym	Definition
AONB	Area of Outstanding Natural Beauty
CE&SMP	Construction Environmental & Sustainability Management Plan
CIRIA	Construction Industry Research and Information Association
ECOW	Ecological Clerk of Works
GC	Gwynedd Council
GPP	Guidance for Pollution Prevention
HART	HOCHTIEF Active Reporting Tool
HTUK	HOCHTIEF (UK) Construction Ltd
NG	National Grid
NRW	Natural Resources Wales
OCEMP	Outline Construction Environmental Management Plan
OHL	Overhead Line
PICP	Pollution Incident Control Plan
PPG	Pollution Prevention Guidance (in process of being replaced by GPP's)
SEC	Sealing End Compound
SNPA	Snowdonia National Park Authority
SVIP	Snowdonia Visual Impact Provision

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7.0 Governance

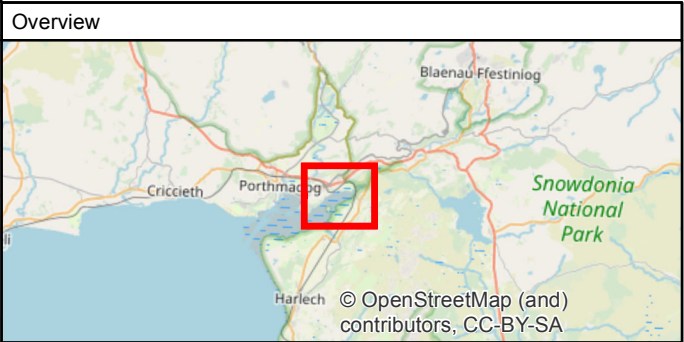
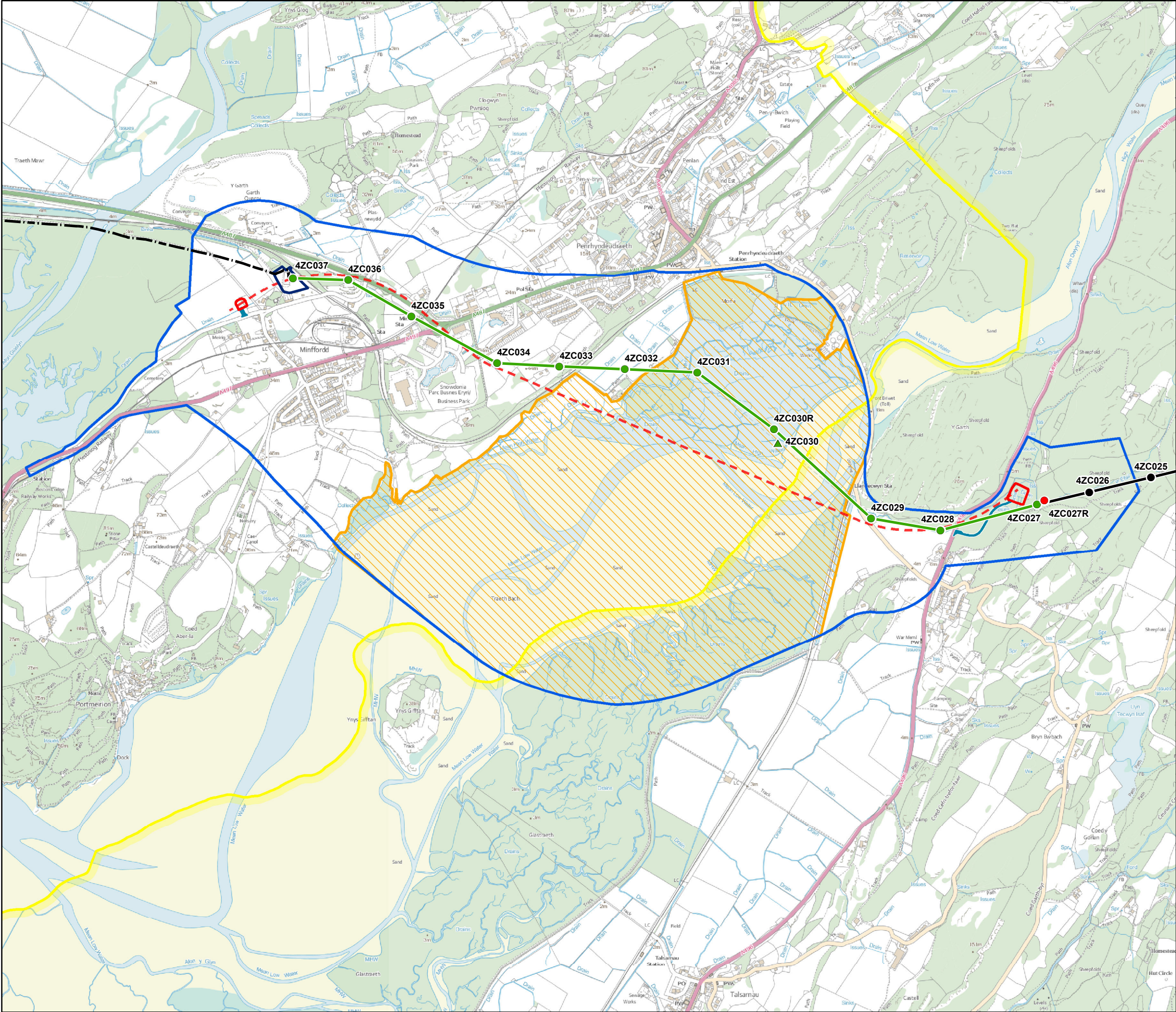
7.1 Document reviews and update

This document will be reviewed as a minimum six monthly by the Environmental Manager/ ECoW or when there is a significant change.

Updates to the document will be saved as a new version number and changes communicated to key site personnel for cascade to site staff as required.

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Appendix A – Site Location Plan

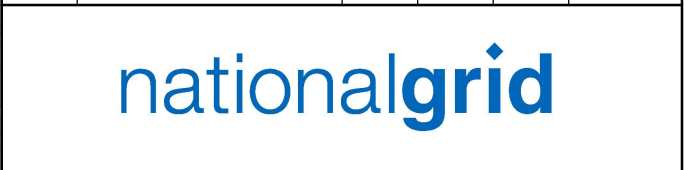


Legend

- Area of Search for Permanent and Temporary Works
- National Grid Land Ownership Boundary
- Tunnel Headhouse Compound
- Proposed Permanent Access Road
- Marine Environment Area
- Snowdonia National Park
- Overhead Line to be Removed
- Existing National Grid Underground Cable
- Existing National Grid Overhead Line
- Proposed Tunnel
- Foundation of Former Pylon 4ZC030 to be Removed
- Existing National Grid Pylon to be Removed
- Existing National Grid Pylon to be Retained
- Proposed New National Grid Pylon

REPRODUCED FROM ORDNANCE SURVEY MAPS, BY PERMISSION OF THE ORDNANCE SURVEY ON BEHALF OF THE CONTROLLER OF HER MAJESTY'S STATIONARY OFFICE. © CROWN COPYRIGHT ORDNANCE SURVEY. NATIONAL GRID ELECTRICITY - 100024241. NATIONAL GRID GAS -100024886

14	National Park Boundary	NH	SR	SR	13/02/2020
13	remove SEC search, add THH	NH	SR	SR	04/11/2019
12	SEC Search Extent	NH	SR	SR	05/06/2019
11	SEC Search Extent	NH	SR	SR	01/05/2019
10	NG Ownership	NH	SR	SR	06/11/2018
09	NG Ownership	NH	SR	SR	10/10/2018
08	Temporary diversion added	NH	SR	SR	05/10/2018
07	Defunct tower location added	NH	SR	SR	26/09/2018
06	Junction Area removed	NH	SR	SR	16/08/2018
05	SEC & Junction Areas	NH	SR	SR	12/08/2018
04	Marine Environment	NH	SR	SR	11/05/2018
03	SEC search area and AoS update	NH	SR	SR	30/04/2018
02	Revised Tunnel Alignment	NH	SR	SR	03/04/2018
01	Study Area Extended	NH	SR	SR	07/03/2018
Rev	Description	Cre'd	Chk'd	App'd	Date



Master Scheme No:	Sub-Scheme No:	Site:
-	-	-

Scheme Name:
Visual Impact Provision (VIP) Snowdonia Project

Document Title:
**Figure 1.1:
Proposed Project Overview**

Created by: N.Hogben	Date: 13/02/2020	Checked by: S.Rotherham	Date: 13/02/2020	Approved by: S.Rotherham	Date: 13/02/2020
Development Eng: -	Document Type: -	Scale: 1:15,000	Format: A3	Sheet(s): 1 of 1	Rev: 14

National Grid Document Number:
-

FEED Document Number:
-

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		For acceptance	

Appendix B – Location of Emergency Services and Authorities

Snowdonia Visual Impact Tunnels



Locations of emergency services

Key

- Site boundary
- 5km site radii to 25km
- Fire station
- Police station
- Hospital
- NRW Office

Emergency services contact details

Natural Resources Wales

1 - NRW Arran Rd, Dolgellau LL40 1LW. 01341 424800

Fire stations

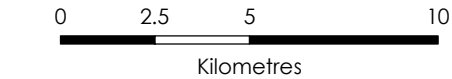
2 - 14 Maes Talaran, Dolgellau LL40 1HR
6 - Park Rd, Barmouth LL42 1PN
7 - Harlech LL46 2UE
8 - Cardiff Rd, Pwllheli LL53 5NF
11 - Porthmadog LL49 9HR
13 - Blaenau Ffestiniog LL41 3NE
16 - Llanberis Rd, Caernarfon LL55 2DF
17 - 59 Maes Padarn, Llanberis LL55 4TE
20 - 2 Bwlch Y Maen, Pentre Du LL24 0DN

Police stations

3 - Barmouth Road, Dolgellau LL40 2YT
5 - Barmouth LL42 1LU
9 - Yr Ala, Pwllheli LL53 5BU
12 - High St, Porthmadog LL49 9NU
14 - 5 High St, Blaenau Ffestiniog LL41 3ES
18 - Maes Padarn, Llanberis LL55 4TB
19 - Penygroes, Caernarfon LL54 6LY

Hospitals

4 - District Hospital, Dolgellau LL40 1NT
10 - Bryn Beryl, A499, Pwllheli LL53 6TU
15 - Eryri, South Rd, Caernarfon LL55 2YE



N

Scale @ A3:
1:200,000

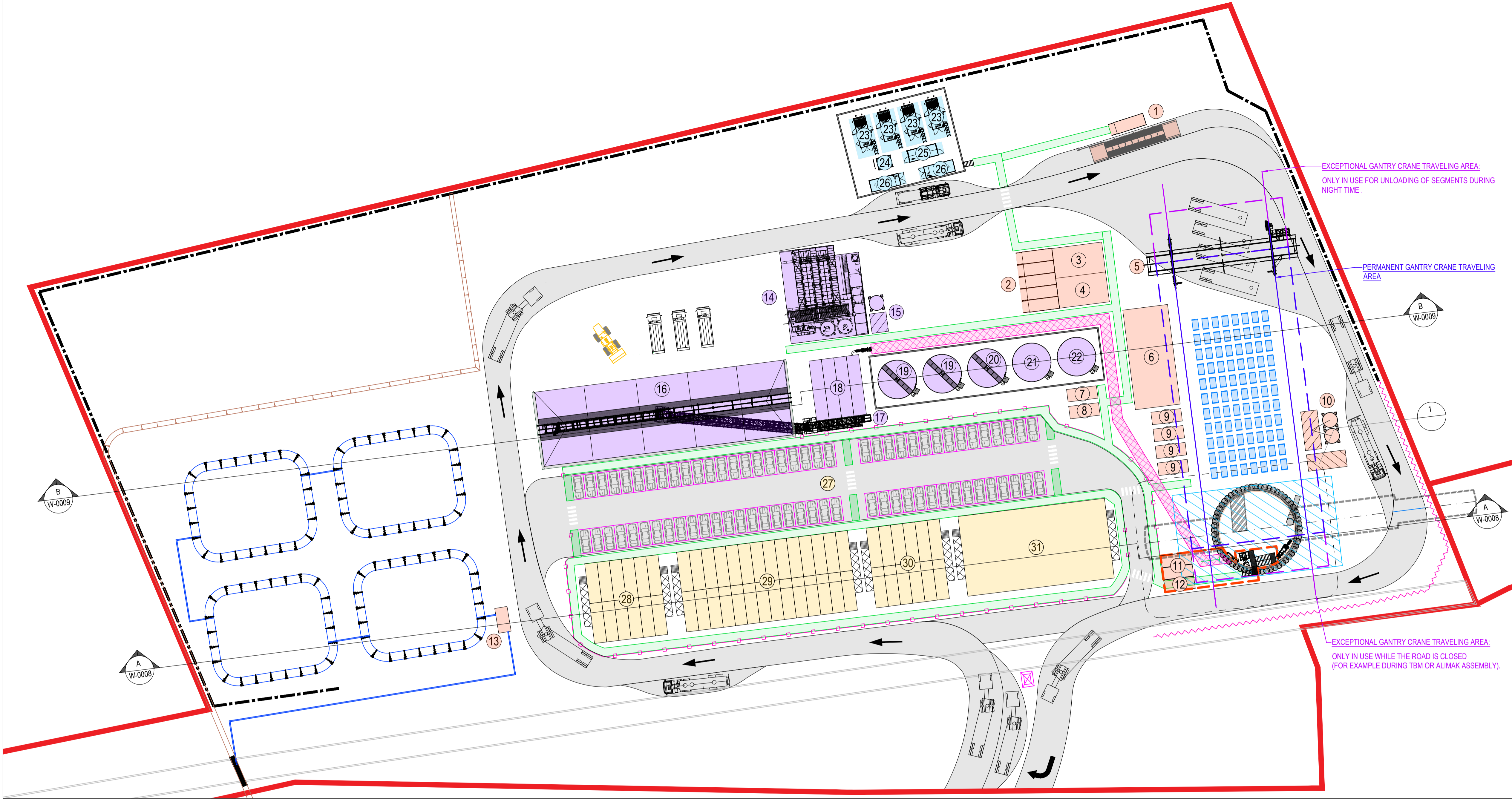
UKAS
MANAGEMENT
SYSTEMS
18001

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Snowdonia Visual Impact Provision Project	C0233-ATM-GES-XX-PL-X-0008	Rev	C03
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Appendix C - Site Installation Plans (Indicative)

These plans are indicative and subject to change during the Project.



- LEGEND:**
- SITE HOARDING GATE
 - SAFETY FENCE
 - NOISE BARRIER (OPTIONAL, IF REQUIRED ONLY)
 - BORED PILES
 - CAR PARK LOT
 - JOB SITE ROAD
 - PEDESTRIAN CROSSING
 - WALKWAY
 - TUNNEL SEGMENT PILE
 - GUARD HOUSE
 - PERMANENT GANTRY CRANE LIFTING ZONE
 - EXCEPTIONAL GANTRY CRANE LIFTING ZONE
 - PIPE LAYING AREA
 - OVERHEAD NOISE BARRIER
 - RESTRICTED AREA WITH ACCESS CONTROL
 - CONCRETE BOUNDARY AS LEAKAGE PROTECTION

DRAFT

P04	TAN	JG		Jun '21	Updated for re-tender
P03	AM	JG		Oct '19	Explosive store removed
P02	AM	JG		Oct '19	Comments incorporated
P01	AM	JG		Oct '19	Issue for tender
Rev	By	Chk'd	Auth'd	Data	Description

Client:

nationalgrid



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Project:

VIP Snowdonia

Title:

Garth
Site Installation Plan

Drawn by: T. Ammann Date: 28/06/2021	Checked by: J. Gill Date: 28/06/2021	Approved by: Date:
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Drawing Scale & Paper Size: 1:450 / 1:150 Paper Size A1	CAD Filename: 108-3-GFP-CW-DR-W-0001
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Drawing status:

Draft for Tender

Drawing No.:
108-3-GFP-CW-DR-W-0001

Rev.:
P04

SITE INSTALLATION PLAN

SCALE 1:450

**TBM FACILITIES AND OTHER
TECHNICAL SITE INSTALLATION:**

- 1 WHEEL WASHING BAY
- 2 20' STORAGE CONTAINER
- 3 CONSIGNMENT STOCK
- 4 ELECTRICAL WORKSHOP
- 5 GANTRY CRANE
- 6 MECHANICAL WORKSHOP
- 7 MEDICAL LOCK
- 8 DOCTOR'S ROOM
- 9 COMPRESSOR PLANT
- 10 BATCHING PLANT
- 11 EMERGENCY RESPONSE FACILITIES
- 12 TALLY HUT
- 13 WATER TREATMENT PLANT

STP FACILITIES:

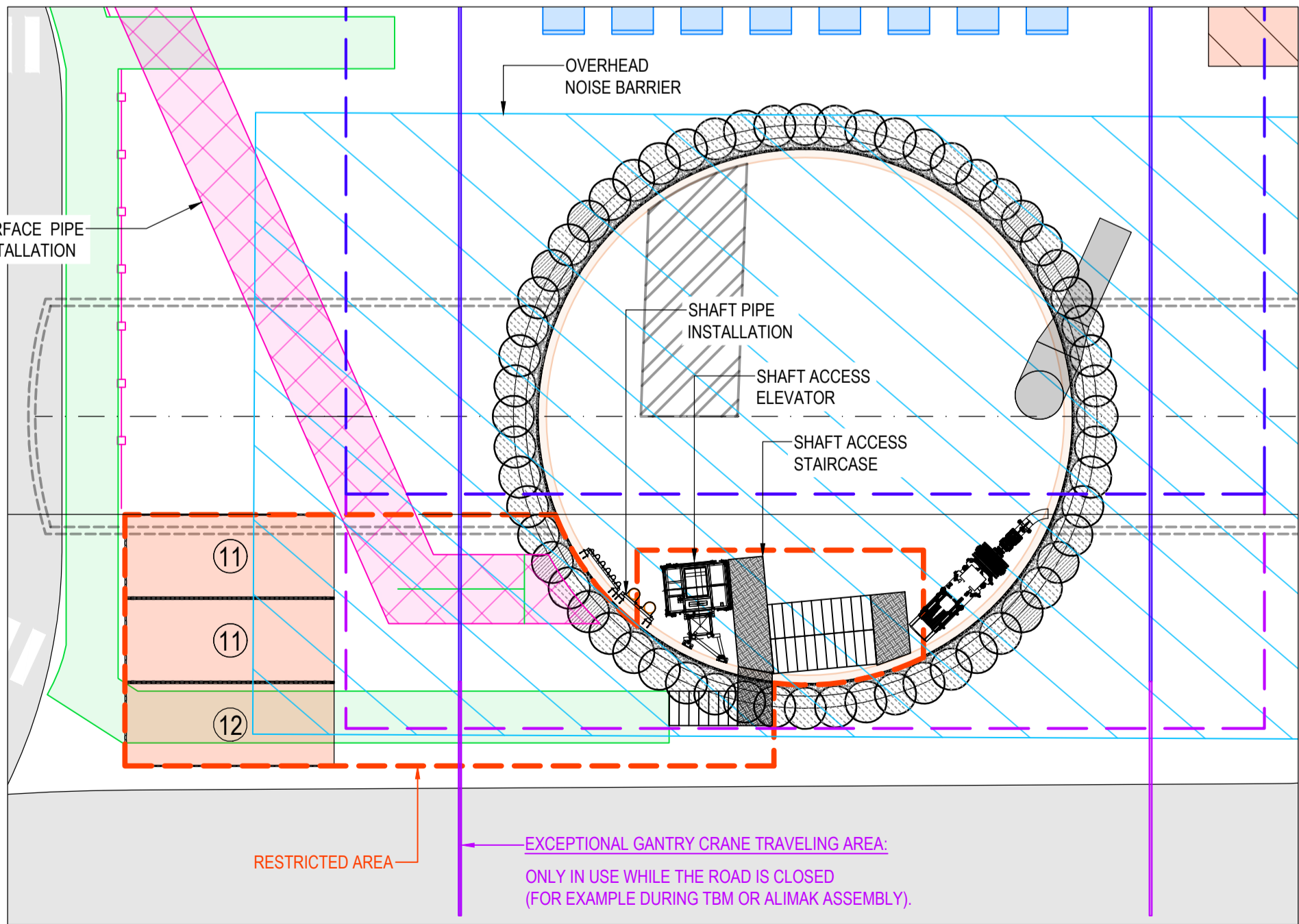
- 14 FILTER PRESS
- 15 BENTONITE MIXING PLANT
- 16 MUCK STORAGE AREA WITH SEPARATION WALLS (CAPACITY $\approx 2,890 \text{ m}^3$)
- 17 CONVEYOR BELT PLANT
- 18 SEPARATION TREATMENT PLANT
- 19 WASTE SUSPENSION SILO WITH AGITATOR ($\varnothing 7.64 \text{ m}$, $H = 6 \text{ m}$, $V \approx 275 \text{ m}^3$)
- 20 FRESH SUSPENSION SILO WITH AGITATOR ($\varnothing 7.64 \text{ m}$, $H = 6 \text{ m}$, $V \approx 275 \text{ m}^3$)
- 21 RECYCLED WATER SILO ($\varnothing 7.64 \text{ m}$, $H = 6 \text{ m}$, $V \approx 275 \text{ m}^3$)
- 22 FRESH WATER SILO ($\varnothing 7.64 \text{ m}$, $H = 6 \text{ m}$, $V \approx 275 \text{ m}^3$)

ELECTRICAL EQUIPMENT:

- 23 GENERATOR ($\approx 1.5 \text{ MVA } 0.4 \text{ kV}$)
- 24 TRANSFORMER ($\approx 2.5 \text{ MVA } 0.4/11 \text{ kV}$)
- 25 LOW VOLTAGE DISTRIBUTION
- 26 FUEL STORAGE TANK (CAPACITY $\approx 15,000 \text{ L}$)

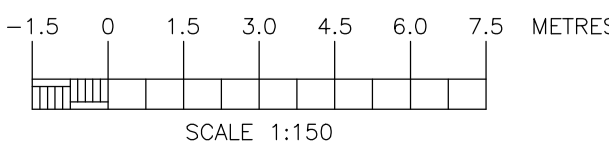
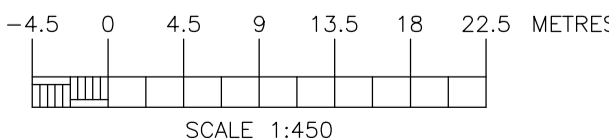
NON-TECHNICAL FACILITIES:

- 27 CAR PARK AREA ($\approx 74 \text{ NOS OF PARKING SLOTS}$)
- 28 OFFICE CLIENT
- 29 OFFICE CONTRACTOR
- 30 WELFARE AREA
- 31 CANTEEN



1

DETAIL
SCALE 1:150



SITE WIDE (16,500m²) ALLOW FOR:
300mm DEPTH TOPSOIL REMOVAL TAKEN TO STORE IN 2.5m HIGH BUND NEARBY
REINSTATE ON COMPLETION OF THE WORKS

PARKING AND HAUL ROAD ALLOW FOR:
E/O TO PERMANENT ROAD:
2,600m² X 100mm BITMAC SURFACING
250mm SUB BASE
500mm HARDCORE
SURFACE LEVEL VARIES

SHAFT AND TUNNEL LAY DOWN ALLOW FOR:
1250m² X 250mm SUB BASE
500MM HARDCORE
SURFACE LEVEL AT +5.5m AOD

CRANE PADS ALLOW FOR:
20m X 20m X 2 LAYERS ALUMINIUM TRAKWAY LAID ON 250mm HARDCORE

SHAFT CONSTRUCTION ALLOW FOR:
3,500m² PILING PLATFORM
1300mm THICK INCORPORATING BASE LAYER OF TRIAX TX170-G
FURTHER 3 LAYERS OF TRIAX TG160
TEMPORARY NOISE BARRIER

LIGHTING:
ROAD - WOODEN POSTS WITH REFLECTORS AND VEHICLE HEAD LIGHTS
PASSING PLACE - 2 No. LIGHTS (ENTRANCE AND EXIT)
SHAFT CONSTRUCTION AREA - 4 No. MEDIUMS MAST LIGHTS AROUND PERIMETER
SHAFT - 2 No. MAST LED DOWN LIGHTS
WALKWAY - LOW LEVEL POSTS AT 20m CENTRES (SOLAR LIGHTING PIR LED)



2.5m HIGH SECURITY FENCE AROUND SHAFT WORKSITE WITH 2NR 4.0m WIDE GATES AND 1 No. 1.5m TURNSTILE ACTS AS TREE PROTECTION ZONE BOUNDARY

PERMANENT WORKS
200T MOBILE CRANE

FOOT ACCESS "BOARDWALK" LAID ON GROUND- RELOCATE EVERY MONTH

PERMANENT DRAIN DESIGN TO BE AGREED

OHL EXCLUSION ZONE

OHL EXCLUSION ZONE

OHL EXCLUSION ZONE

DRAIN LAID WITHIN FLOATING ROAD EMBANKMENT TO TEMP LAGOON

35x5 FULL DEPTH EXCAVATE SOFT GROUND, PEAT, FILL IN >10mm STONE

NOTES:
1. ALL DIMENSIONS IN METRES UNLESS SHOWN OTHERWISE
2. QR CODES FOR DIRECTIONS TO:

ACCIDENT & EMERGENCY
YSBYTY GWYNEDD BANGOR HOSPITAL

MINOR INJURY UNIT
YSBYTY ALLTWEN PORTHMADOG HOSPITAL

CILFOR WORK SITE

- LEGEND:**
1. SITE OFFICES
 2. STORES AND WELFARE
 3. PARKING AREA
 4. SHAFT CONSTRUCTION AREA
 5. STOCKPILE AND PROCESSING AREA
 6. SHAFT AND BUILDING LAY DOWN AREA
 7. BUNDED FUELLING POINT
 8. CRANE PLATFORM (13m x 13m)
 9. NOT USED
 10. SECURITY AND GATE
 11. UNLINED BALANCING POND (BUILT ON EXISTING GROUND)
 12. EMERGENCY MUSTER POINTS LAGOON
 13. WHEEL WASH
- OFFICES AND STORES AREA (500m²)
SHAFT CONSTRUCTION AREA (3,500m²)
PARKING AND HAUL ROAD AREA (2,100m²)
WALKWAY
PERMANENT LAGOON AREA
STOCKPILE AND PROCESSING AREA (600m²)
SHAFT LAY DOWN AREA (1,400m²)
- IMPACTED MIRE - UP TO 0.05HA CAN BE LOST/SIGNIFICANTLY DAMAGED. ANY ADDITIONAL HABITAT TO USE MATTING ON A ROTATION OF 1 MONTH TO REDUCE DAMAGE
AREA CAN BE USED BY CONTRACTOR - NO MATTING REQUIRED
HABITATS ENHANCED TO MIRE BY TRANSLOCATING PEAT AND MMIRE TURFS. ONLY USE TO PEAT MANAGEMENT
NO IMPACT TO MIRE- HABITAT TO BE PROTECTED AND AVOIDED FOR USE
RETAINED HABITATS - HABITAT TO BE PROTECTED AND AVOIDED FOR USE
PERMANENT FOOTPRINT - ACCESS TRACK AND TUNNEL HEAD HOUSE
AREAS FOR OHL CONSTRUCTION NOT FOR USE BY TUNNEL CONTRACTOR
PLANNING APPLICATION RED LINE BOUNDARY
LAND OWNED BY CLIENT

P05	MG	KR		08.08.22	Incorporated Comments
P04	KC	JG	JG	10.06.21	Updated model
P03	KC	JG		24.03.20	Updated model
P02	AM	JG		Oct '19	Explosive store removed
P01	AM	JG		Oct '19	Issued for tender
Rev	By	Chk'd	Auth'd	Data	Description

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nationalgrid

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Project:

SNOWDONIA VISUAL IMPACT PROVISION

Title:

CILFOR SITE INSTALLATION PLAN

Drawn by: A. MARTIN	Checked by: J. GILL	Approved by:
Date: 16/10/2019	Date: 16/10/2019	Date:
Drawing Scale & Paper Size: 1:500 Paper Size A1	CAD Filename: 108-3-HUK-GFP-CW-DR-W-0001	

Drawing status:

PRELIMINARY

Drawing No.: 108-3-HUK-GFP-CW-DR-W-0001

Rev.: P05



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		For acceptance	

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