

Historical Impact Assessment

Margam Country Park

In this Historical impact assessment, we will be detailing the works that will be required to be undertaken with minimal impact on the historical and listed buildings within the country park. We will go through each building individually and all will be included in this document with its own subsection. We will be utilising as much infrastructure that is already in place to minimise disruption to the park and also to avoid any excavations where possible. We have planned to avoid the historical monuments as much as possible, entering the park in three separate routes (2 routes have existing infrastructure).

HIA – Historical Impact Assessment

LBC – Listed Buildings Consent

Indicative method statement for our work

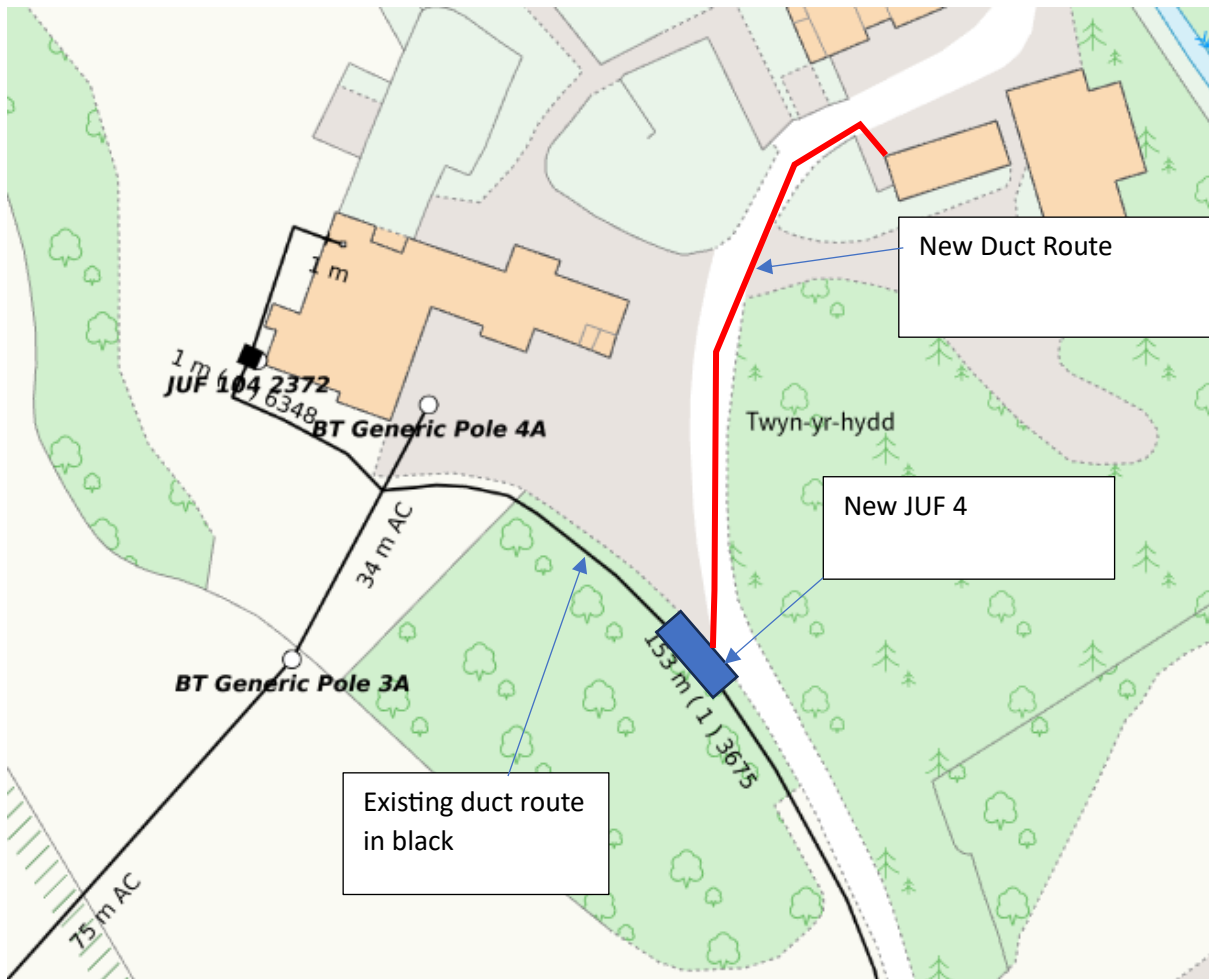
Mitigation to lower impact and risks to buildings and monuments

Regulation 5 notice

Estates Office

The estates office is not a listed building; however, it is located in the vicinity of historical buildings which are listed so we will aim to make the works done to this building as aesthetically pleasing as possible whilst not making alterations to the colour/texture of the building. The estates office is located down a gravel road and is in the vicinity of Twyn Yr Hydd and surrounded by stables which are listed.

The route to Twyn Yr Hydd already has an existing duct route which we are going to utilise. The plan to connect the duct routes to the estate's office is as follows;



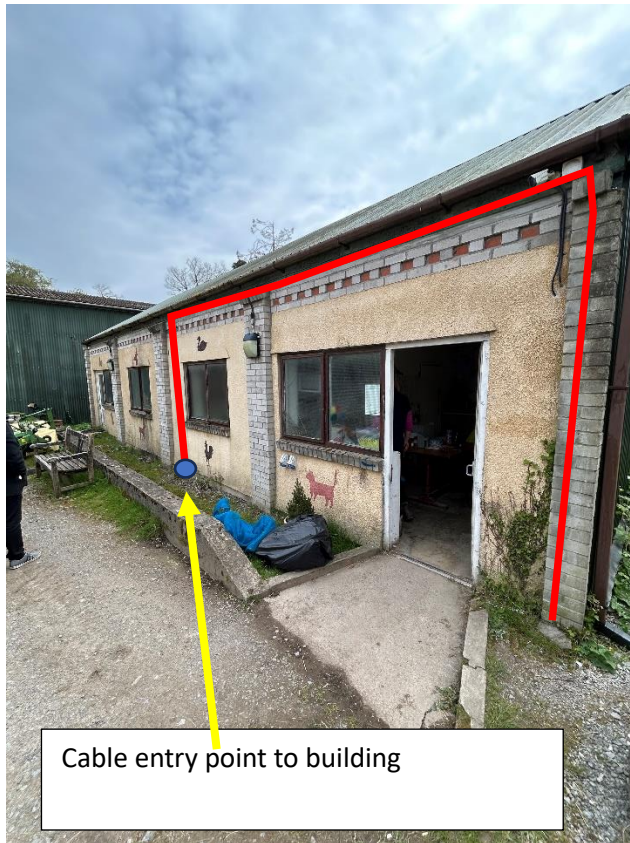
As you can see from the above map the black line indicates an existing route. The red line will be following the gravel track and a new underground structure will be placed where the blue rectangle is and “dropped” over the existing duct route



As you can see from the above pictures. The duct route will follow the red line and finish at the base of the estate's office just next to the entrance doorway. The cable will be protected with an "elephants' foot". Which is pictured below. This will need to be secured to the building with 4-8 1.5-inch deep holes (6mm in diameter) x8 with red wall plugs will be used externally to protect the cable coming out of the duct. 4-8 of these will be required to secure the capping to the external wall of the building. I have also attached a photo of the "customer splice point" (CSP) This is where the external cable will terminate to be connected onto the internal cable. The CSP will also require 1.5-inch x2 holes (6mm in diameter) with wall plugs to house the equipment. The holes to secure our equipment to the building will be made with a Milwaukee 110V drill with a masonry attachment. The CSP can also be sprayed a colour that will match the building as currently we have access to grey or brown.



The last works required after the duct work and the cabling has been completed will be to fix the cable to the building. We will be fixing the cable along the green wooden fascia board that the CCTV/Lights are currently. I have drawn a red line below as to the rough route that this will take. The ONT will then be fixed inside the building using 2x 1.5-inch deep holes (6mm in diameter) with red wall plugs and also powered with a mains socket. The internal cable will be secured to the wall using 3.5mm white cleats following the red route as below. NPT council will then be able to complete the internal cabling work when we have completed the work.



Mitigation regarding the estate's office would be that we will instruct the engineers to only use approved equipment up too and not exceeding the 110V drill that we currently use. There is no infrastructure leading directly into this building so all the duct work and external work will be brand new.

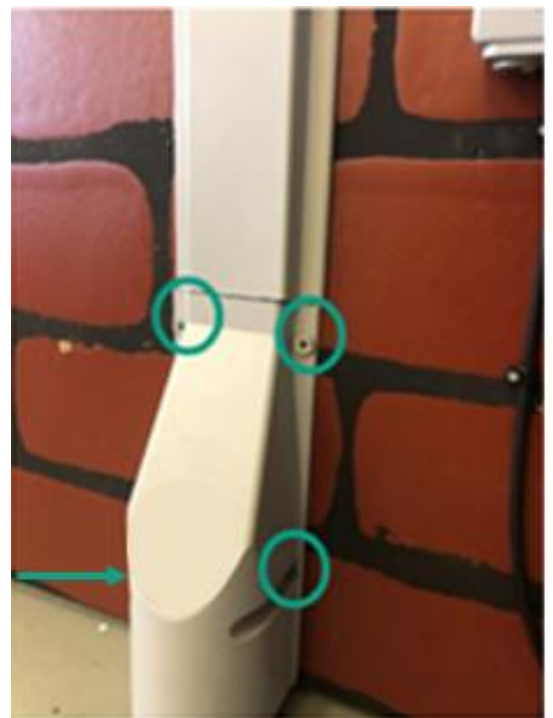
The works carried out by the civils teams and Openreach will not affect the setting or aesthetics of the adjacent buildings (stable block and other surrounding listed buildings/monuments)

Twyn Yr Hydd – listed building

Twyn Yr Hydd is a listed building which already has an existing fibre circuit (from Kenfig Hill Exchange). The infrastructure for this building is already in place which will help massively as well since the infrastructure is underground. This will also enable us to remove the existing and damaged copper cables which are attached to the building with some tangled in the hedges surrounding the building.

The existing duct route ends at the boundary of the building and has a fibre blown fibre tubing going directly into the building. We are looking at getting this removed and NPT will provide details if this can be removed. If this is not an option, then we will have no choice but to drill a 2nd hole next to the existing hole. This hole will be 12mm in diameter and will go right the way through the wall to create an entry into the building. The hole will then be filled with mortar and lye that will be arranged with NPT building services as we complete the work required. This cable should also be protected with an elephants foot and capping which will require 2-4x 1.5inch deep holes (6mm in diameter) with wall plugs to fit the protective capping to the wall. This can be scuffed up and painted prior to install so that it blends into the building.

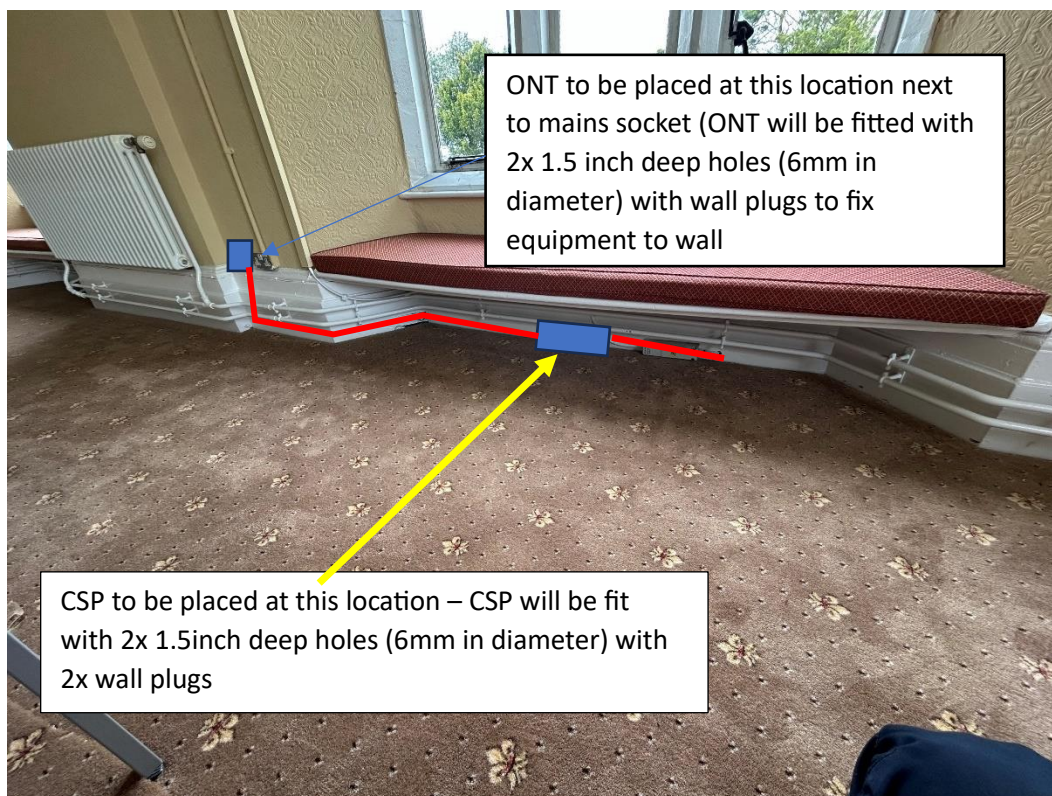
(elephants foot pictured below right)



On entry into Twyn Yr Hydd we will be placing an internal CSP (see below);



This can be placed over the entry hole, but the external cable will only be able to enter the building and “travel” a maximum distance of 2 meters. The cable will then be connected to an internal cable which will then in turn connect to the ONT. The CSP will require 2x 1.5 inch holes with wall plugs to fix the internal CSP to a wall and also the ONT will require 2x 1.5 inch with wall plugs holes to fix to a wall. The ONT will require mains power. The internal cable will be secured to the wall using 3.5mm white cleats following the red route as below. We will aim to keep to this plan as much as possible but I see no reason why this route cannot be followed.



Mitigation for Twyn Yr Hydd would be that the existing legacy copper feeds which are not providing any service to the building will be removed. The cables are fed from a pole just outside the boundary and all cables attached to the building can be removed. We are not able to remove the fixing points of these cables due to the length of time that these have been fixed to the building, the attachments could be rusty and may cause damage if we were to remove them. After we remove the cables the fixing points could be removed by NPT building services or a contractor so they will be able to “make good” the areas where these fixing points have been attached. There is an existing duct route to Twyn Yr Hydd and

we will be using the existing infrastructure to provide service. All drilling tasks completed on this building will use a 110V drill and not exceeding 110V.

Summary of works – Civils

Contractor will provide a method statement on how they will carry out the below works. A contractor will survey the civils work required prior to works starting.

80 meters of duct work installed 250mm-350mm deep.

Underground structure - JMF 4 x1 (Twyn Yr Hydd) - dimensions 915mmx445mm and will be installed 665mm-815mm deep.

Contractor will plan with the park on best possible dates and times to complete work

Acquire an air lance and use hand digging to complete the duct work on the leading to the orangery

Summary of works – Openreach

Connectorized block terminals x1 installed in underground in above UG chambers.

Small fibre node x1 installed in UG structures.

Customer splice points (grey) x2 (1x internal) fixed to the buildings - Compact size (L: 166/ W:144/ H:33 mm)

ONTx2 (internal) - The ONT is a small white plastic box (180mm x50mm x 120mm)

Elephants foot and capping x2 – these will be fixed to the buildings with 4-8 1.5inch deep with wall plugs and the holes will be 6mm in diameter (depending on the length required)

3.5mm cleats white/black – these will be fixed to secure the cables both internally and externally. These will only be used on sections where there is no plastic capping that will be provided by the NPT IT department.

Source alkathene (or similar) product to protect cable on entry to buildings and through walls (pipe to be sealed with silicone 15mm either side for external walls and 10mm either side for internal walls) and NPT building services will seal the holes with mortar and lye putty to repair the listed buildings to protect the listed buildings (does not apply to car park kiosk which will follow normal policy)

Drills will not exceed 110V to protect the cavity walls in the listed buildings.

Removal of any redundant copper cables to improve the aesthetics of the buildings to return them to an original look

Openreach will plan with Margam Park on the best possible dates and times to complete the works required for installing full fibre broadband to the park

Summary of works – Neath Port Talbot Council

Listed buildings – repair drill holes with mortar and lye putty on completion of works to “make good” the listed buildings and return them to an original look.

IT department to provide trunking (buildings that you feel appropriate to install) Any trunking will be used by Openreach and will avoid any hammering and cleating of cables.

Paint/ scuff up capping and CSP’s so that it will blend in with the look of the buildings.

Cover UG structures as required to blend in with environment. Plan with civils teams on arrival for requirements of additional depth of covers so it can easily be covered with gravel or grass to match surrounding area.

NPT building services to remove any large brackets (Twyn Yr Hydd) after Openreach have removed cables and “make good” with mortar and lye putty to make good buildings and return to an original state