

North York Moors National Park Authority  
**Land of Iron**

**Title:** Figure 1. Location plan of Grosmont interpretation boards

**Date:** 26/11/2018

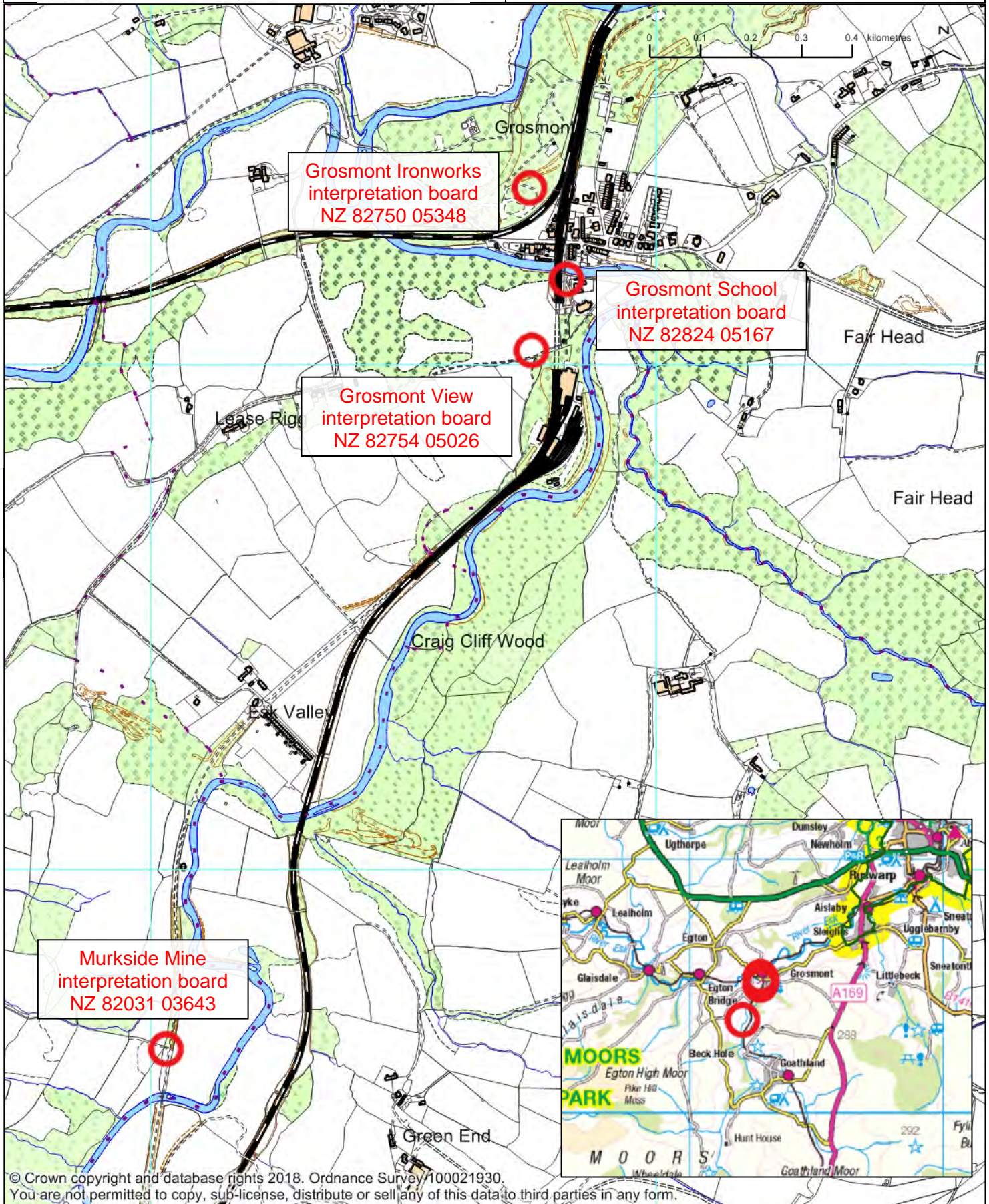
**Drawing number:** 1045.01



Funding raised by  
**The National Lottery**  
and awarded by the Heritage Lottery Fund

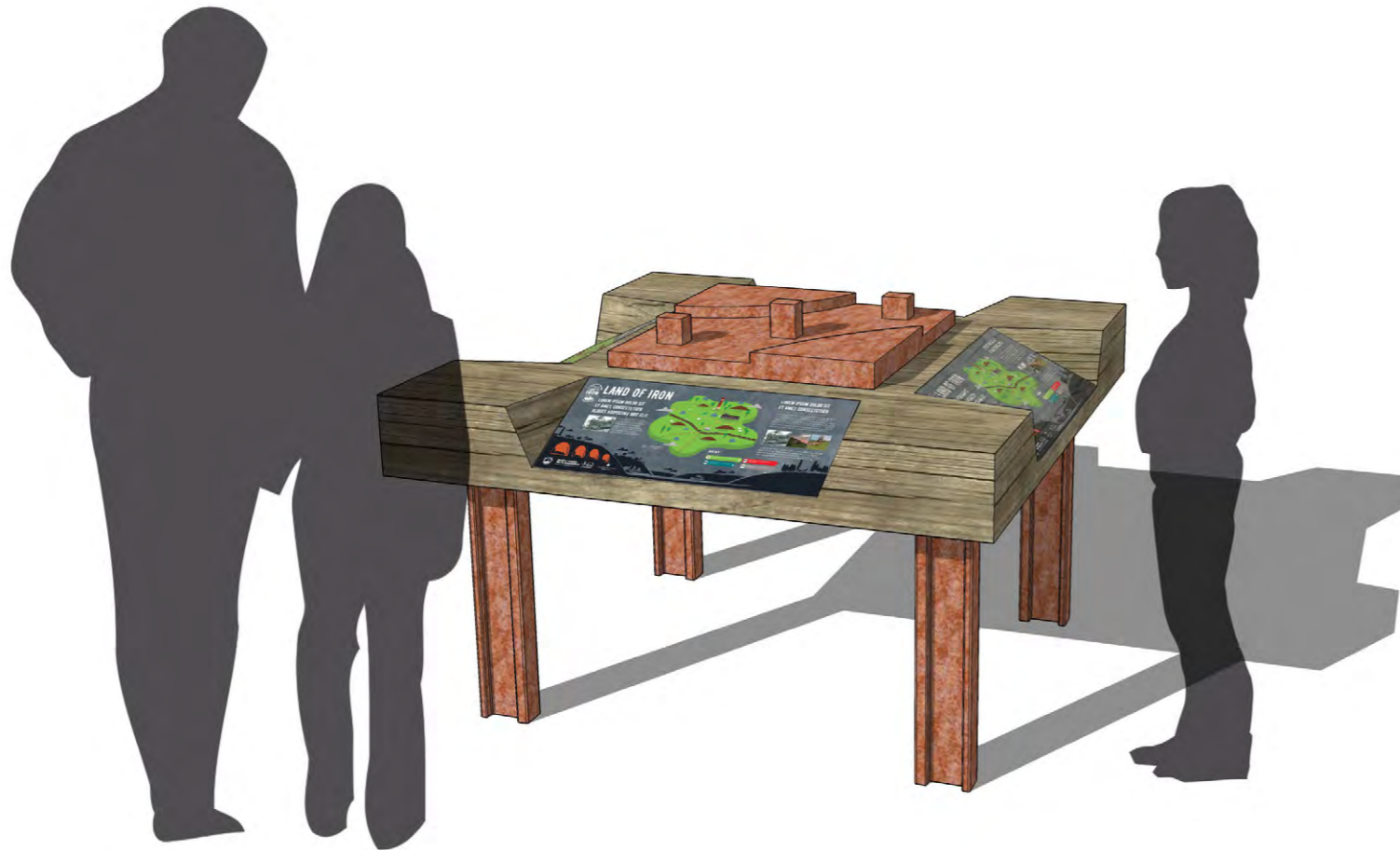


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# 1.3 GROSMONT UPPER CAR PARK - PLINTH WITH CAST

OS - NZ 82693 05339



NYMNPA  
04/01/2019

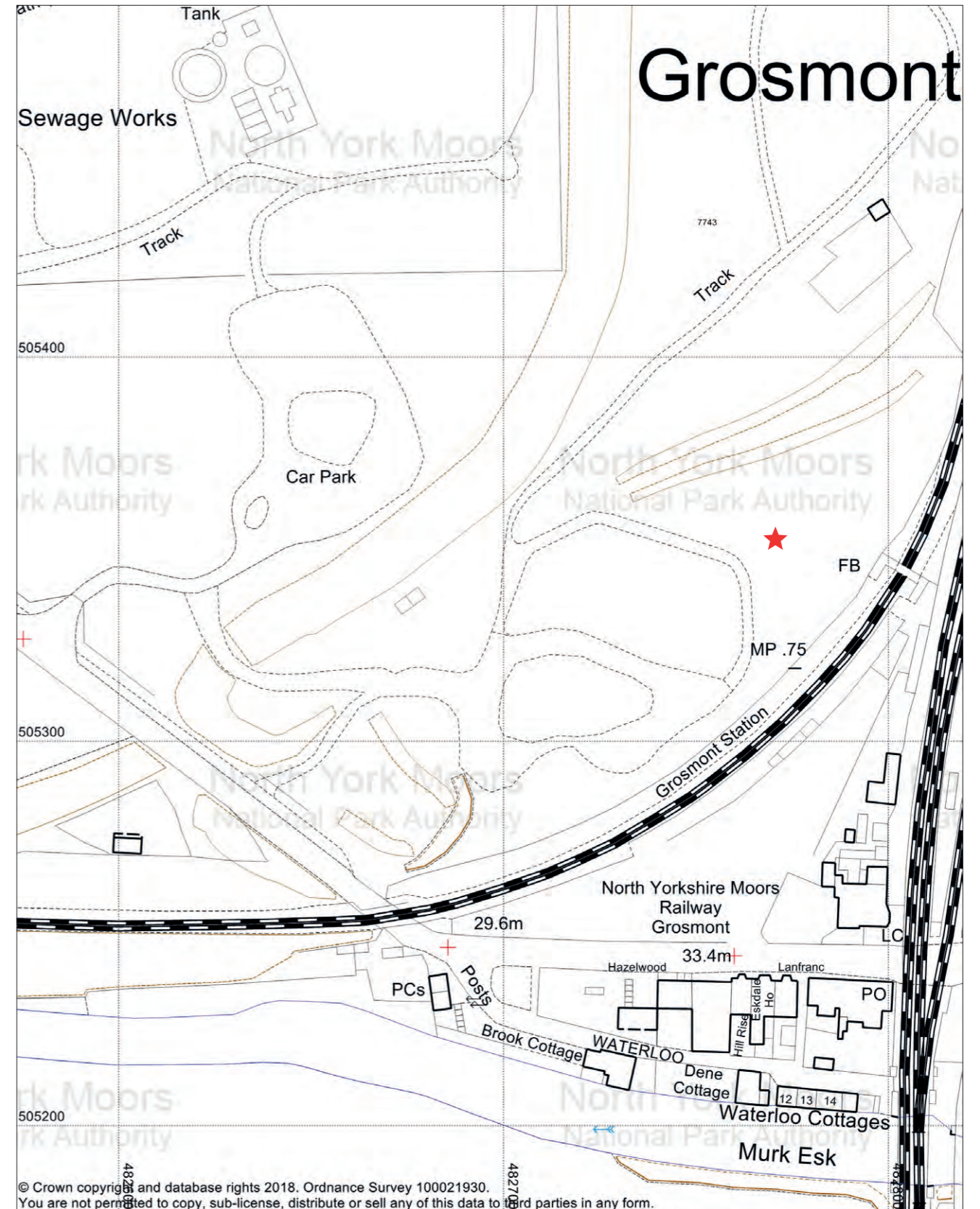


North York Moors National Park Authority  
The Old Vicarage  
Bondgate  
Helmsley  
YO62 5BP

Grosmont carpark



Scale: 1:1250



# 1.4 GROSMONT CARPARK - BENCHES X2

OS - NZ 82693 05339



NYMNPA  
04/01/2019

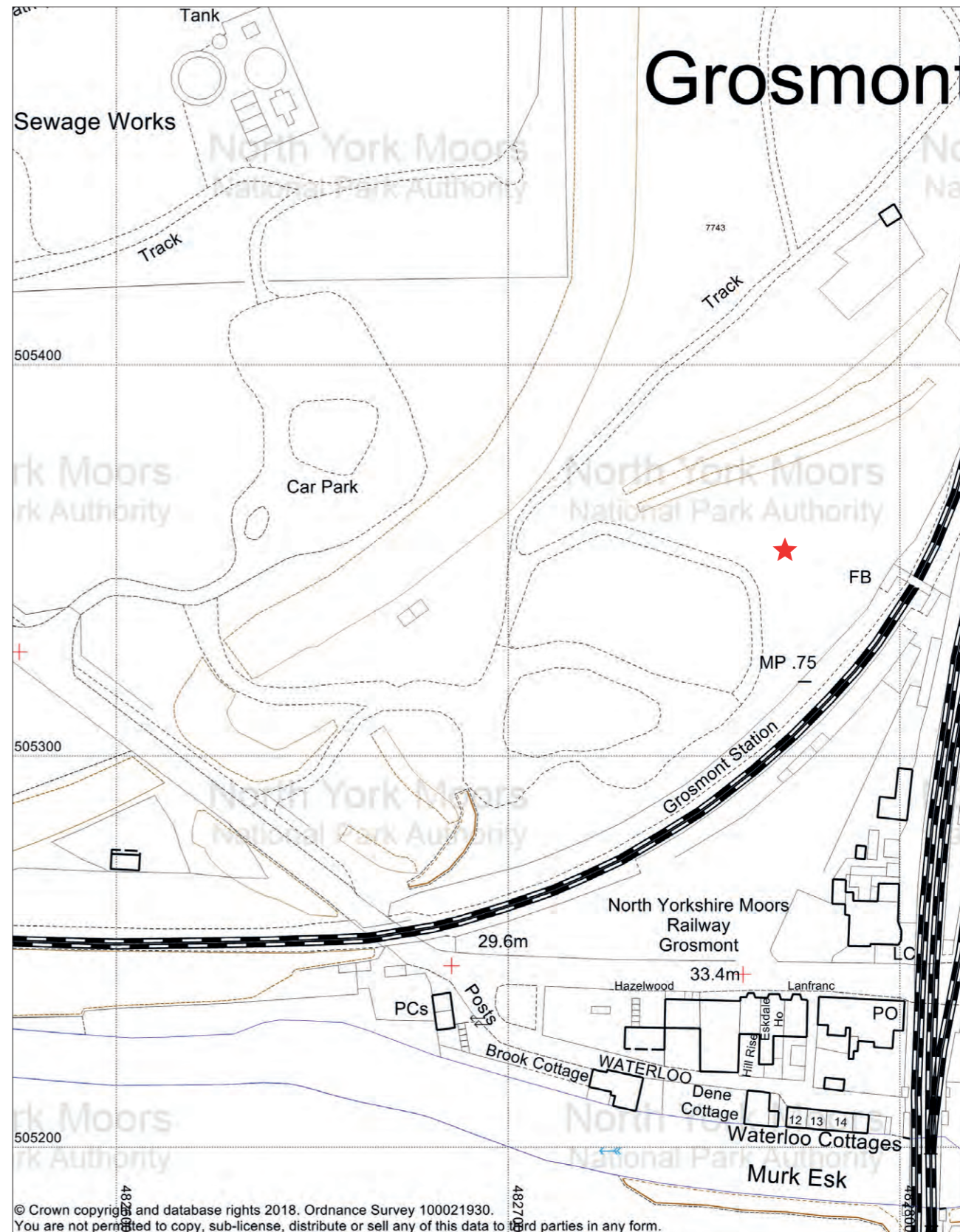


North York Moors National Park Authority  
The Old Vicarage  
Bondgate  
Helmsley  
YO62 5BP

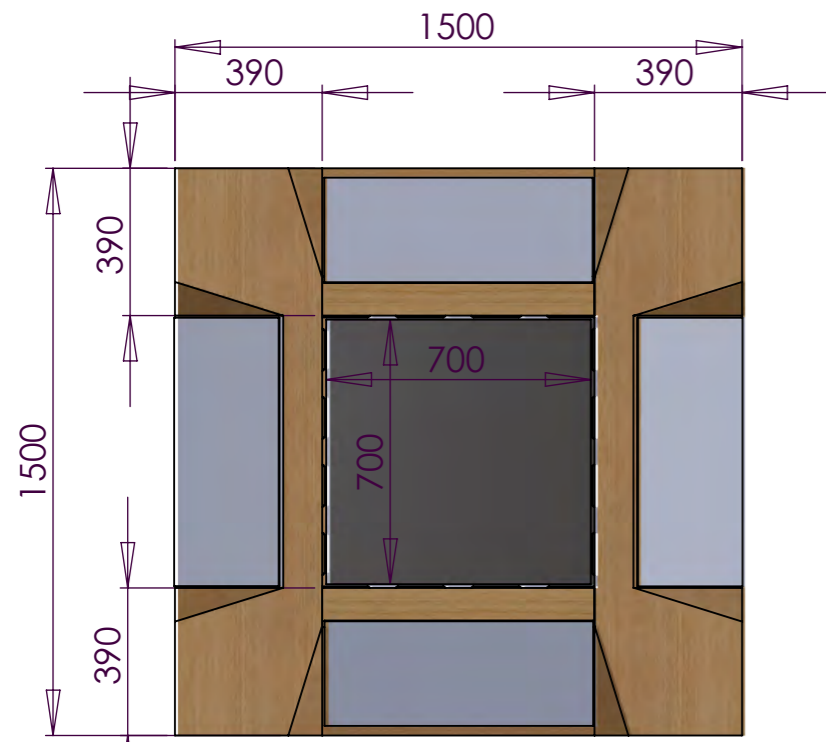
Grosmont carpark



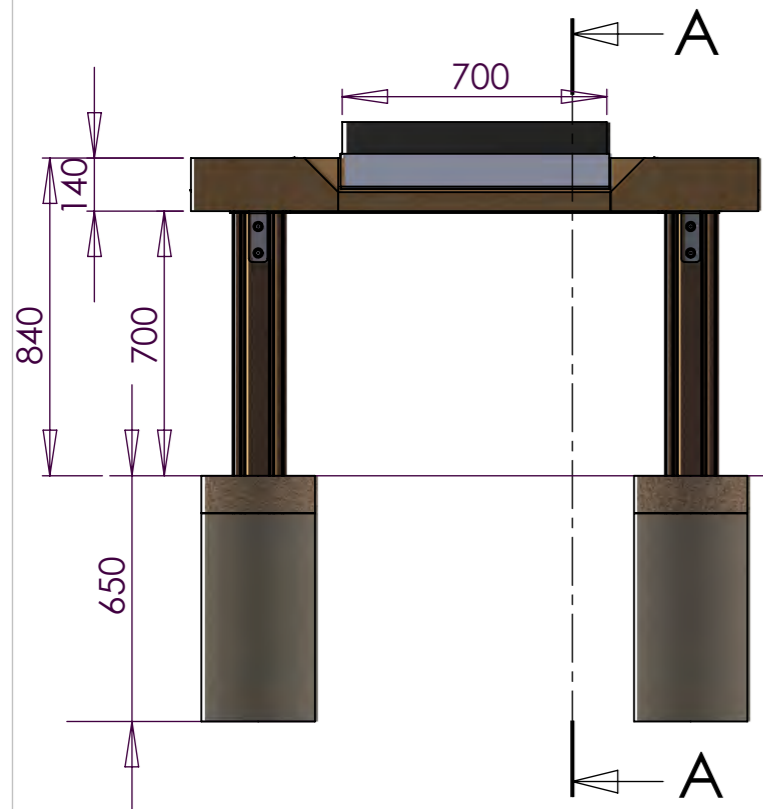
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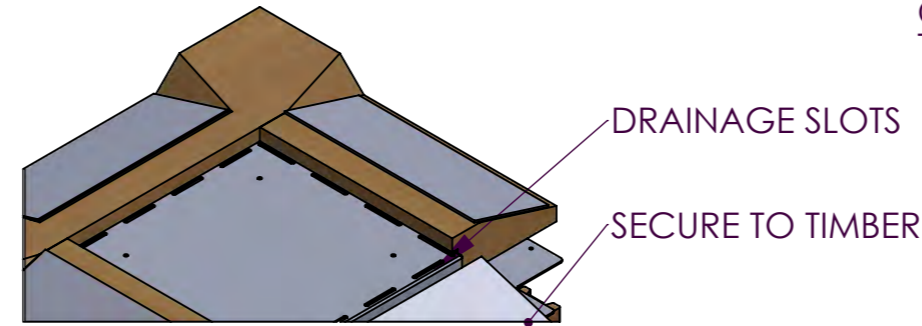
SITE LOCATION:  
GROSMONT CAR PARK



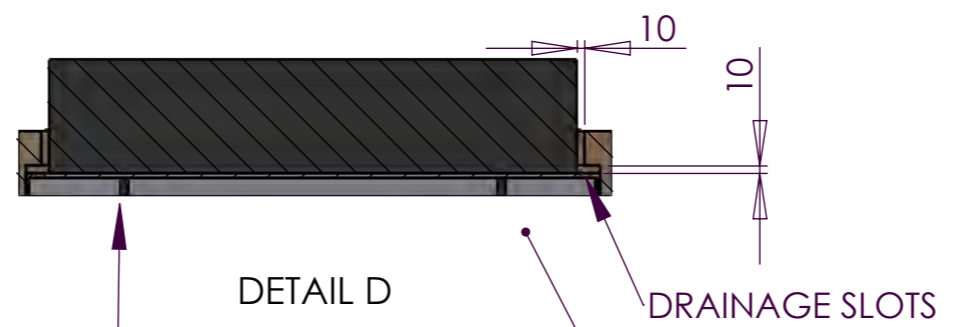
PLAN



FRONT ELEVATION



DRAINAGE SLOTS  
SECURE TO TIMBER

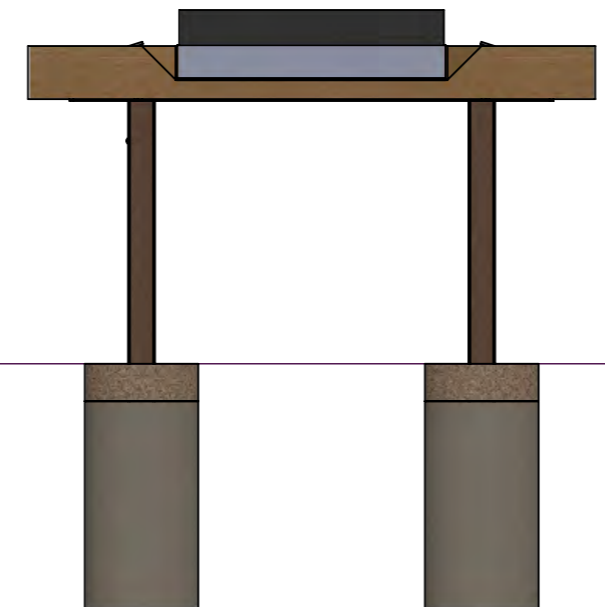


DETAIL D

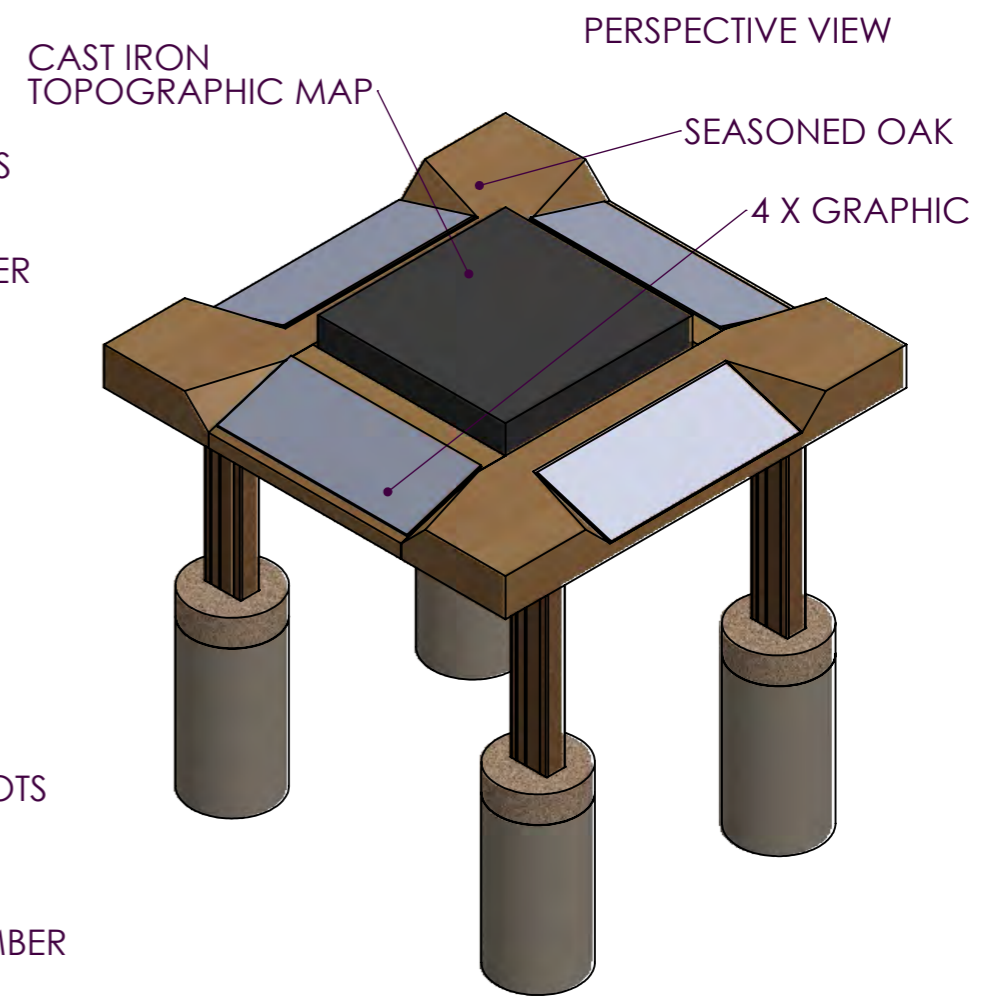
CAST BOLTED THRO'  
METALWORK SUBSTRATE

DRAINAGE SLOTS  
SECURE TO TIMBER

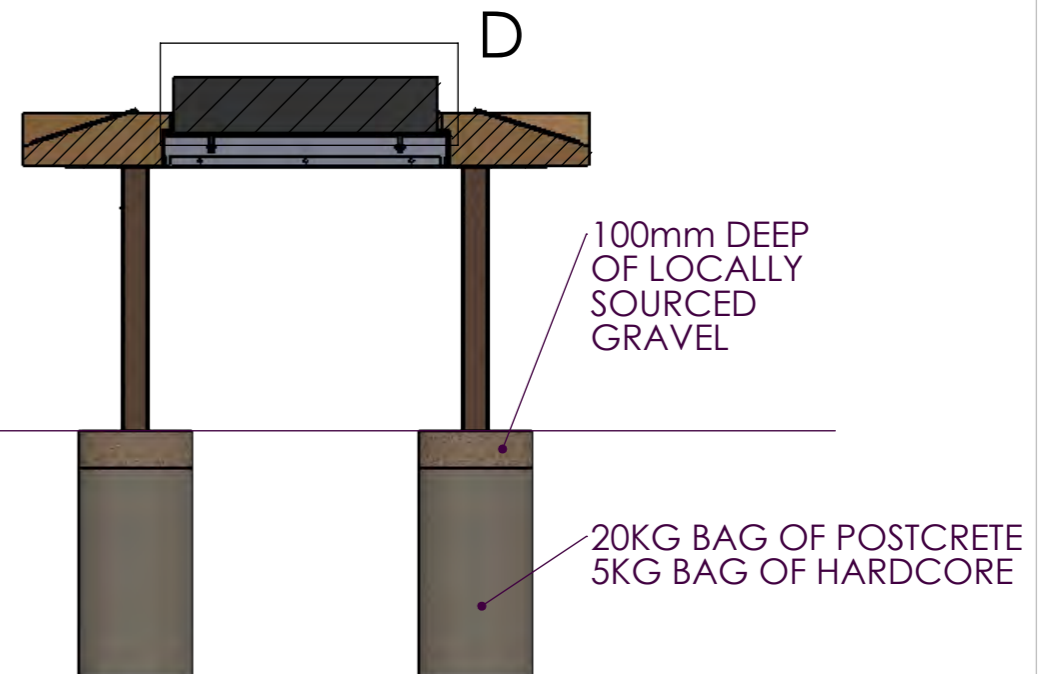
NYMNPA  
04/01/2019



SIDE ELEVATION



PERSPECTIVE VIEW



SECTION A-A

**TYPE i**  
**TABLE WITH 4 GRAPHIC PANELS**

CLIENT: NYM NATIONAL PARK  
PROJECT NAME:  
PROJECT NO:

DWG TITLE: GENERAL ARRANGEMENT  
DWG NO: LOI-T-001  
SCALE:

DATE: 05/12/18  
REVISION: F  
DRAWN BY: JC

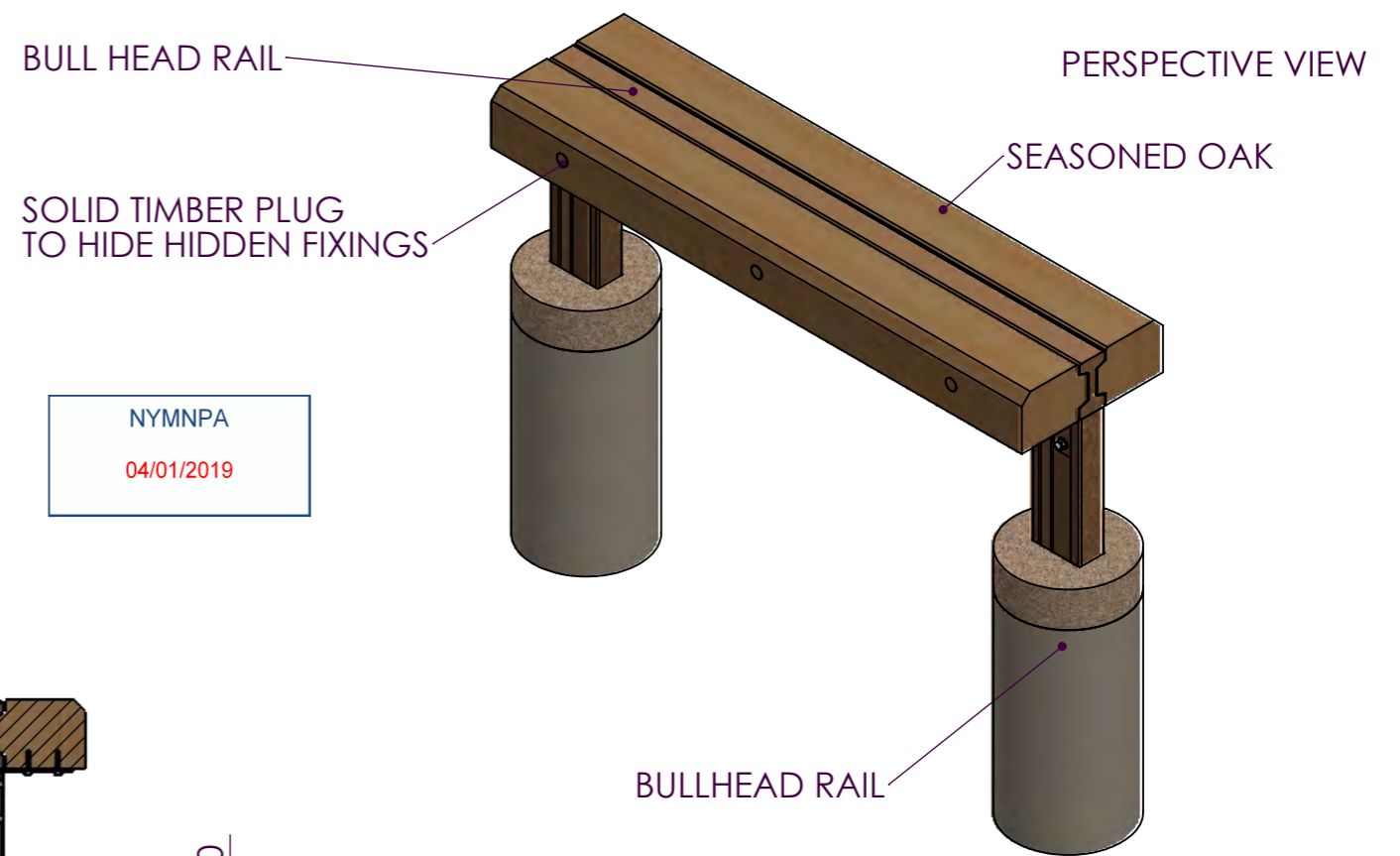
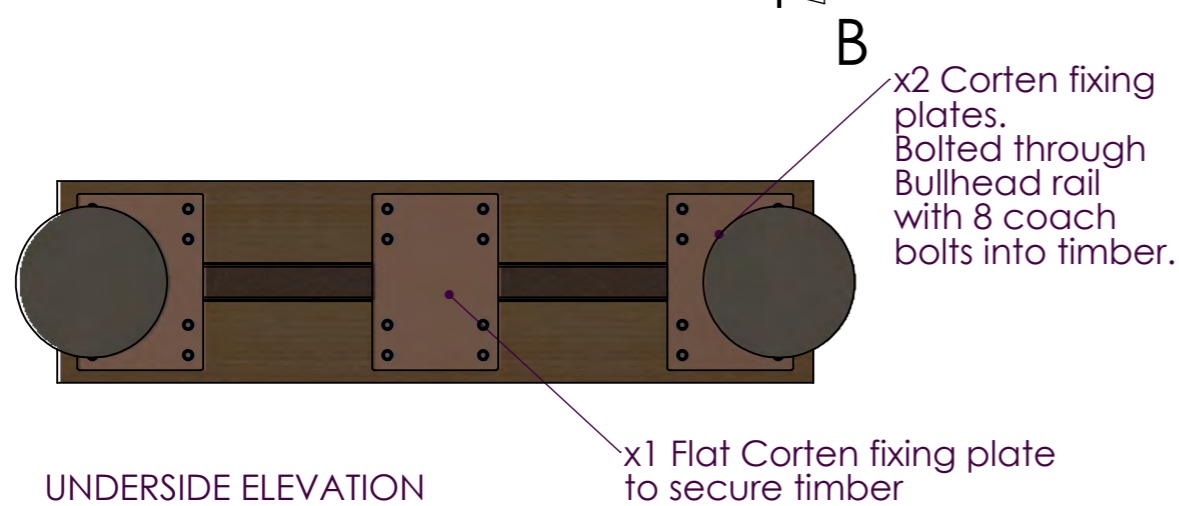
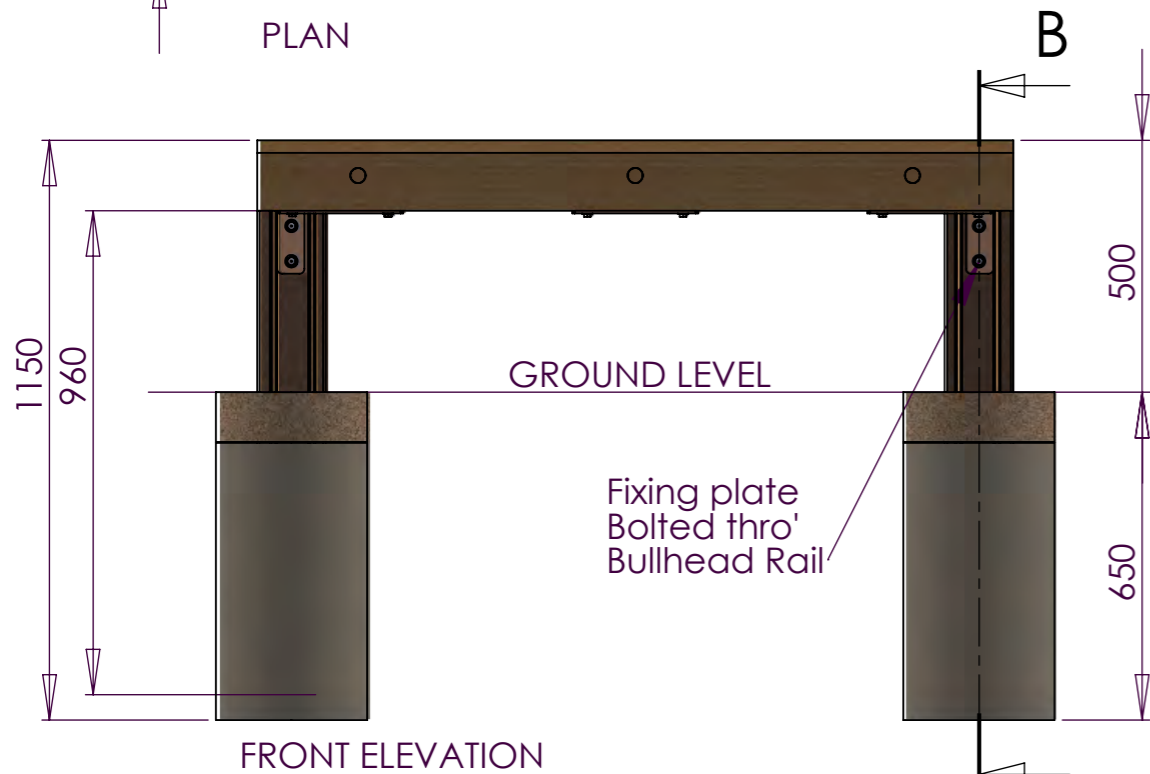
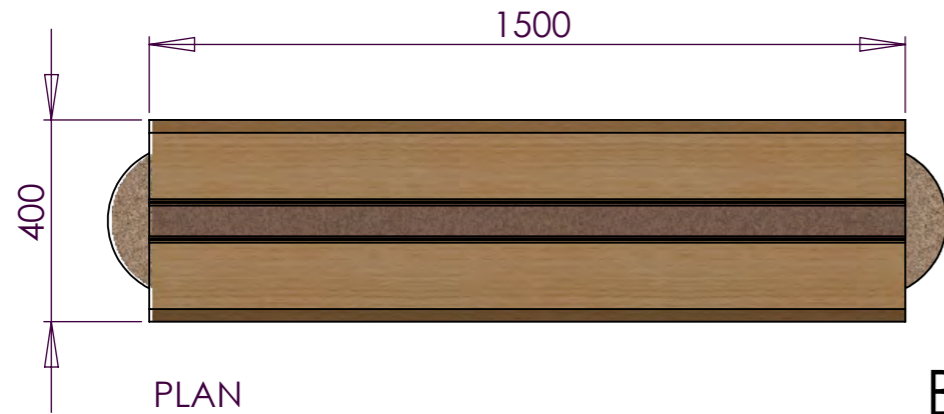
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HD2 1FA

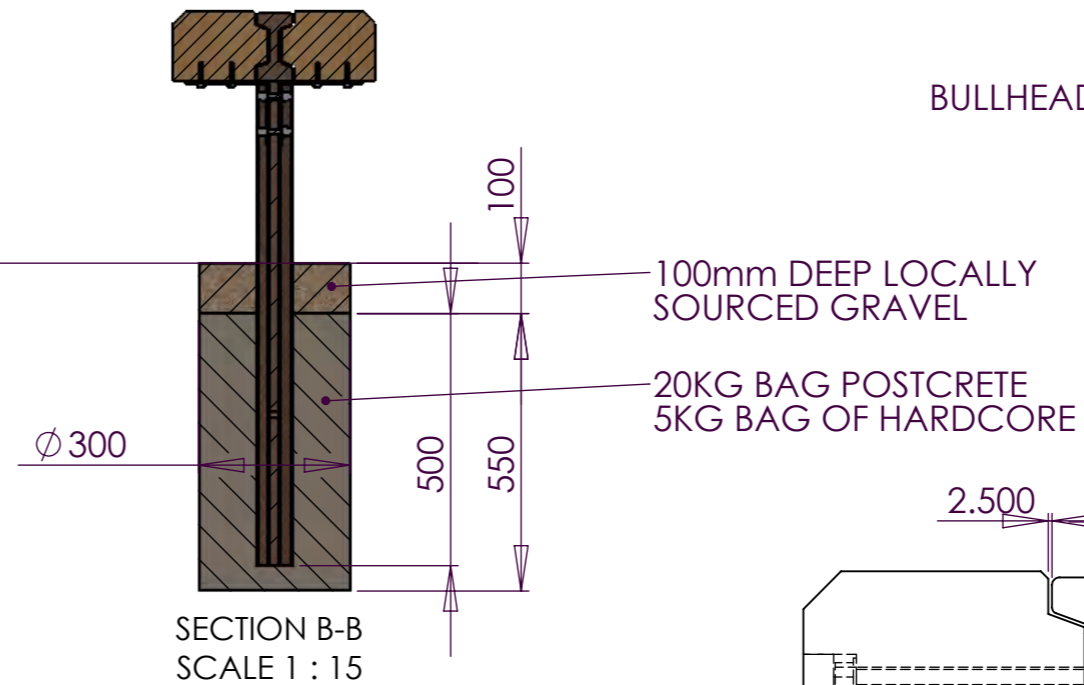


**SITE LOCATION:**

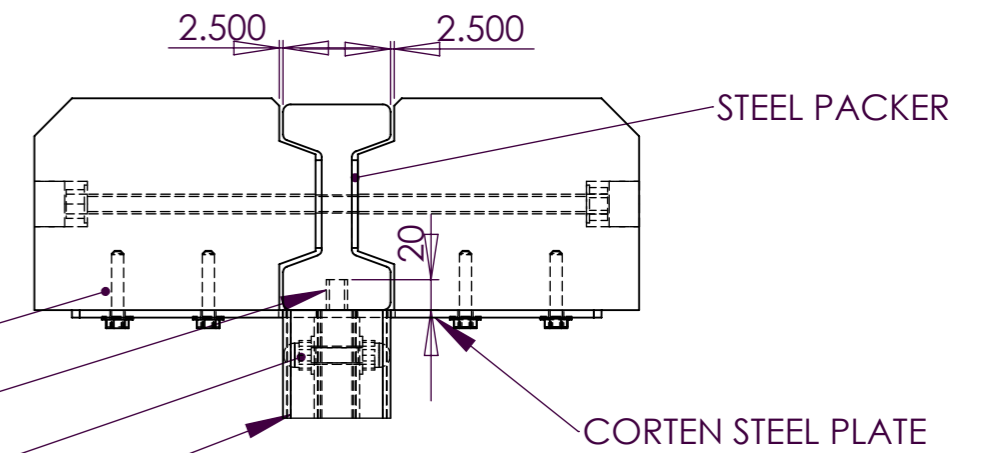
RAIL TRAIL: BECK HOLE IRONWORKS  
 GROSMONT: GROSMONT CAST OF SITE IN CARPARK (WITH TABLE)  
 ROSEDALE BANK TOP: CAST OF SITE ON PLINTH (WITH TABLE)  
 INGLEBY INCLINE: CAST OF SITE AT TOP (WITH TABLE)



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BOLT HOLES TO SECURE TIMBER TO CORTEN STEEL PLATE STOPPING RAIL MOVEMENT  
 20mm LOCATING PIN FOR RAIL TO DROP ONTO



DETAIL A  
 SCALE 1 : 5

**TYPE G  
 STANDALONE BENCH**

CLIENT: NYM NATIONAL PARK  
 PROJECT NAME: LAND OF IRON  
 PROJECT NO:

DWG TITLE: STANDALONE BENCH  
 DWG NO: LOI-LI-001  
 SCALE:

DATE: 05/12/18  
 REVISION: F  
 DRAWN BY: JC

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# 1.1 GROSMONT SCHOOL

OS REFERENCE - NZ 82830 05142

NYMNPA

04/01/2019



\* Please note graphic design of panel is indicative only at this stage

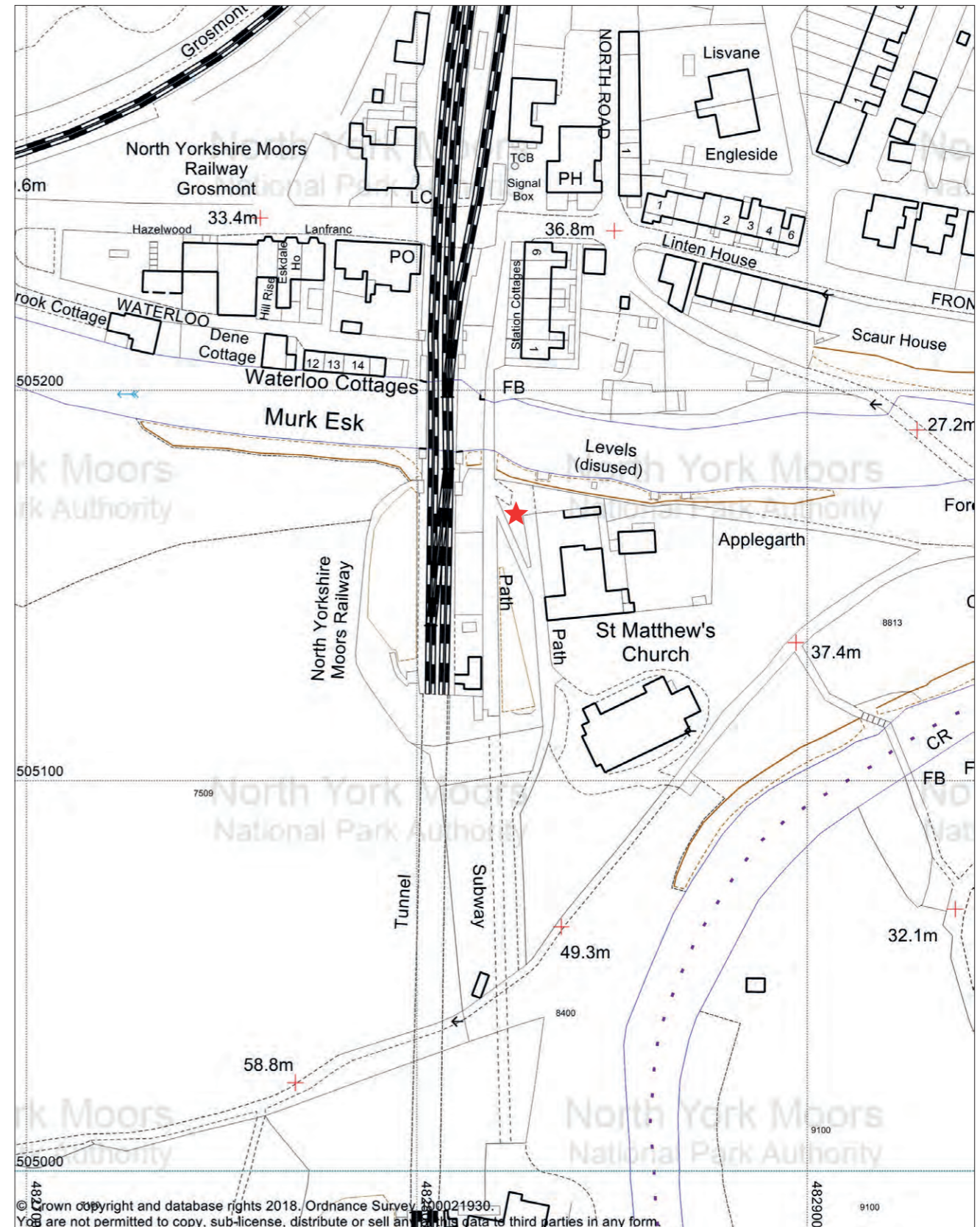
Grosmont Church/School panel



North York Moors National Park Authority  
 The Old Vicarage  
 Bondgate  
 Helmsley  
 YO62 5BP



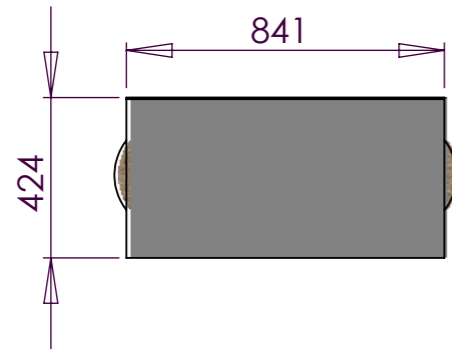
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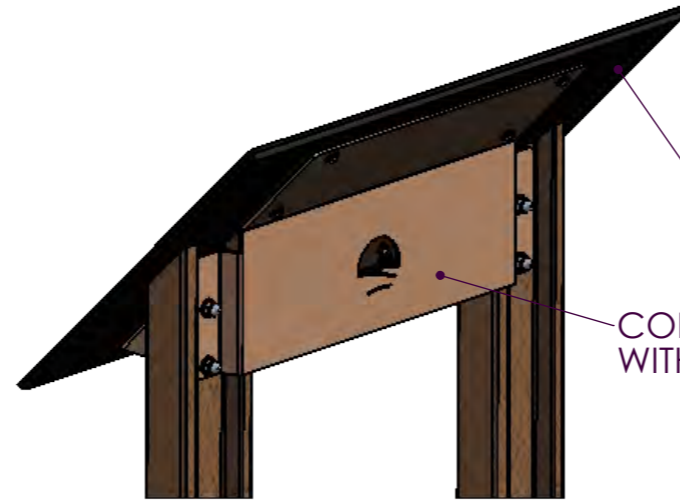
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SITE LOCATION:

WARREN MOOR: MINE SITE  
 ROSEDALE RAILWAY: BLAKEY JUNCTION  
 RAIL TRAIL: MURKSIDe MINE

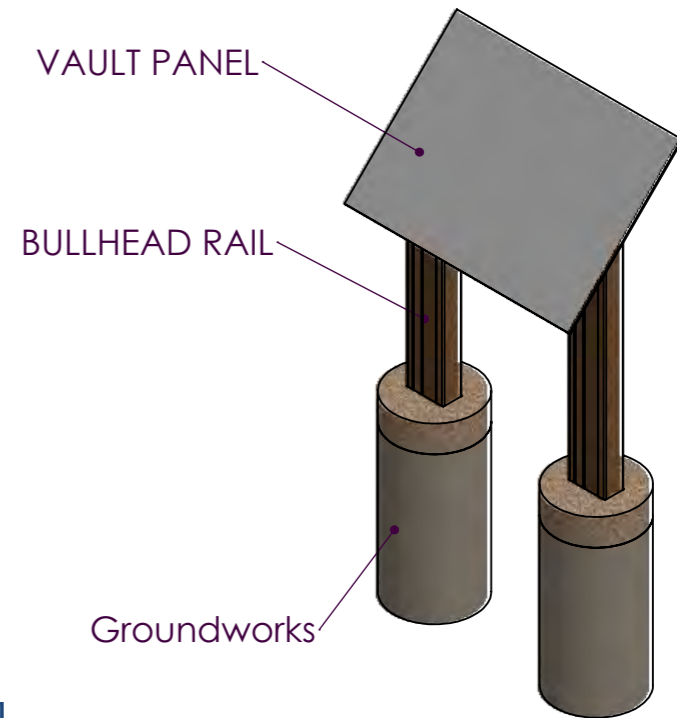


PLAN

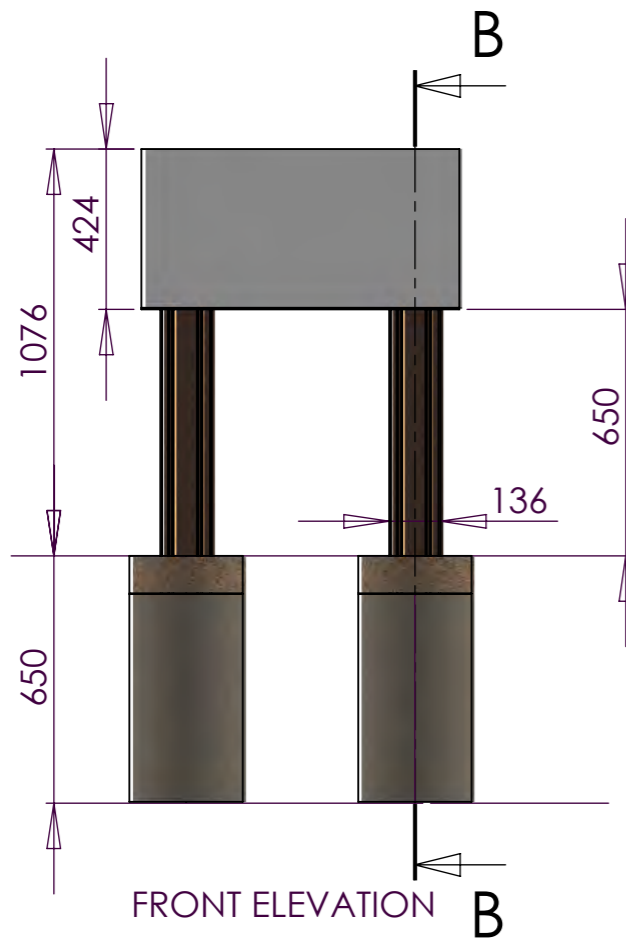


BACK DETAIL

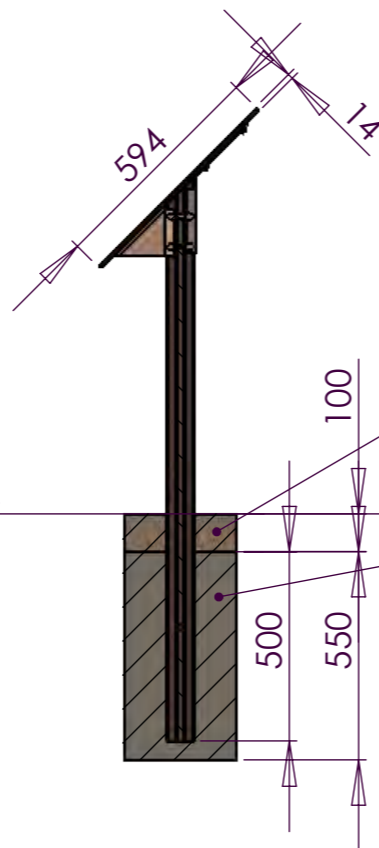
PERSPECTIVE VIEW



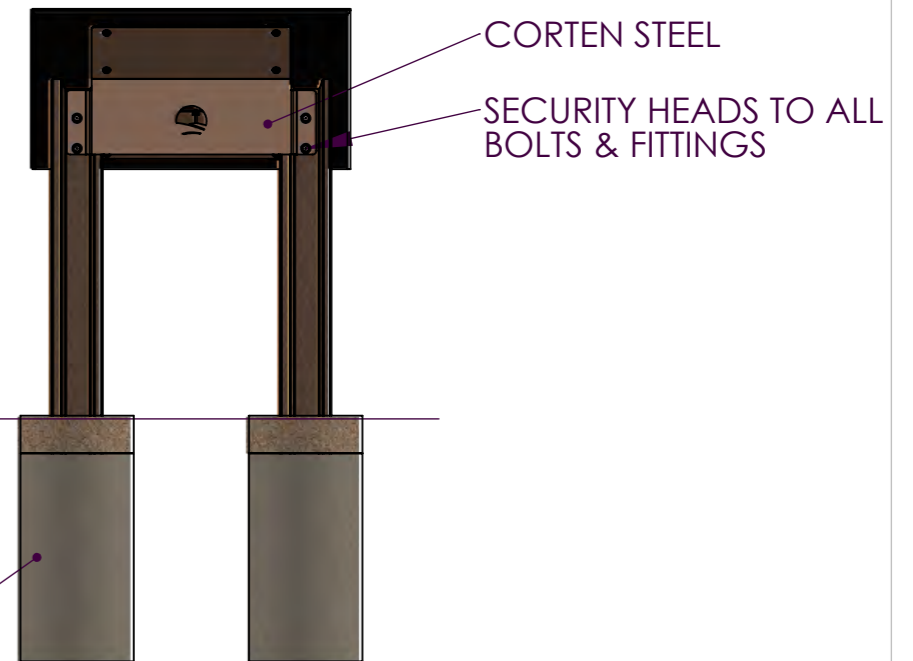
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 04/01/2019



FRONT ELEVATION



SECTION B-B



BACK ELEVATION

**TYPE A**  
 STANDALONE GRAPHIC

CLIENT: NORTH YORK MOORS NATIONAL PARK  
 PROJECT NAME: LAND OF IRON  
 PROJECT NO:

DWG TITLE: STANDALONE GRAPHIC  
 DWG NO: LOI-GA-002  
 SCALE: 1 : 20

DATE: 05/12/2018  
 REVISION: E  
 DRAWN BY: JC

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# THE RAIL TRAIL

## CROSMONT - GOATHLAND

beautiful woodland

river side paths



look at wildlife

In the beginning  
the carriages  
were pulled  
by horses

in this heritage landscape

lamp rope winds round  
wooden drum

When I start the horses  
I can see the carriage  
The beginning the carriage  
was pulled by a team of horses  
The carriage was pulled  
up an incline

Carriages pulled  
up by descending  
water tanks

water tanks  
used as a  
counterbalance



Just one year later  
the Railway King J.R. built tunnels, bridges and stations  
where needed, to transform the line for steam locomotives. A  
new section was built to bypass the Beck Hole incline.  
The Rail Trail explores the horse drawn line. A trail booklet  
is available in local shops. 1.5 miles of the trail, from the  
summit of Esk Valley, are suitable for wheelchairs.

Funded by the European Union, Yorkshire  
Development Agency and Humber Regional  
Development Agency and the North York  
Moors National Park Authority

an easy to follow 3.5 mile (5.6km) walk  
and 3 mile train journey

# 1.2 GROSMONT VIEWPOINT - TYPE B PANEL

OS - NZ 82763 05024



\* Please note graphic design of panel is indicative only at this stage

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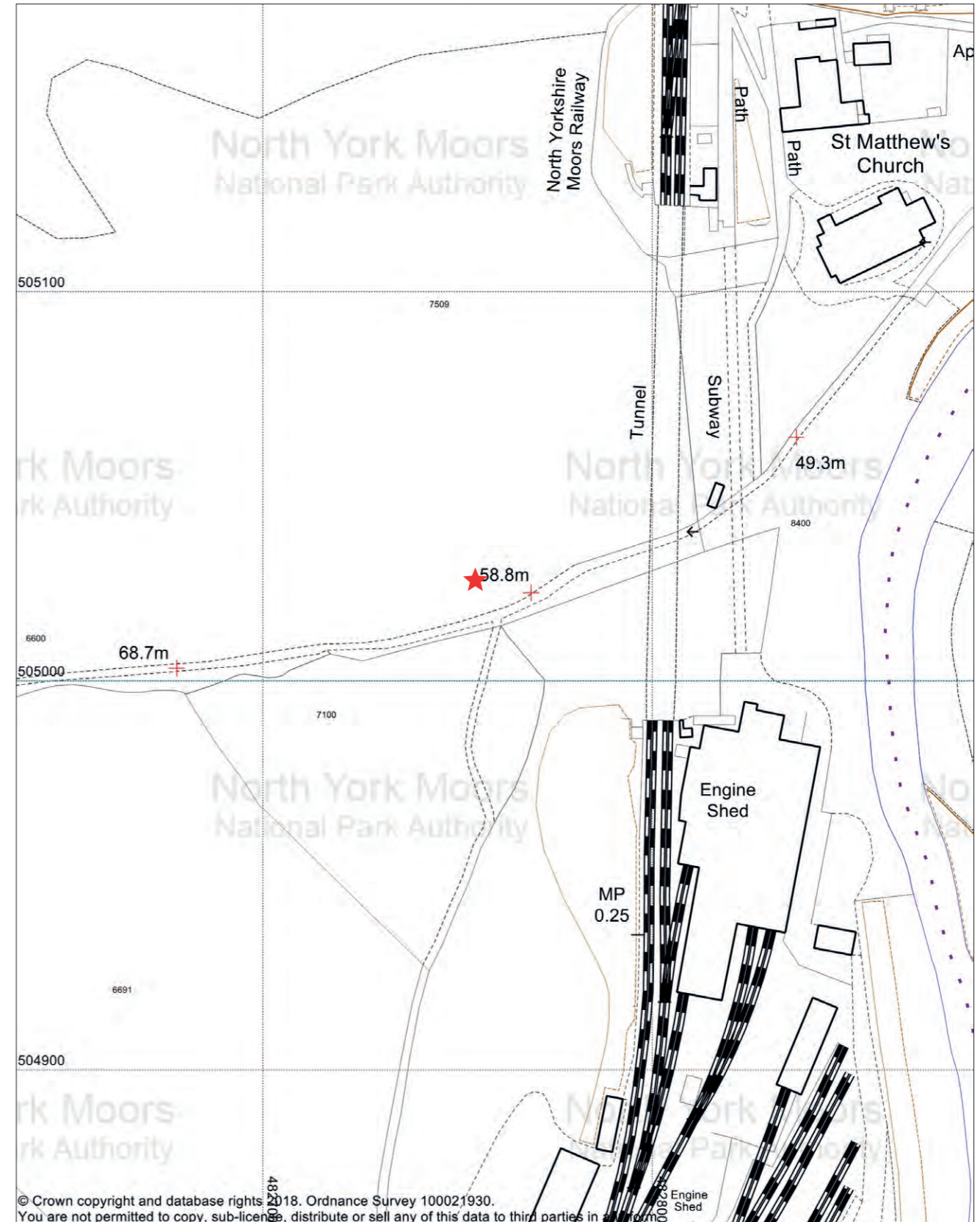


North York Moors National Park Authority  
The Old Vicarage  
Bondgate  
Helmsley  
YO62 5BP

Grosmont Viewpoint

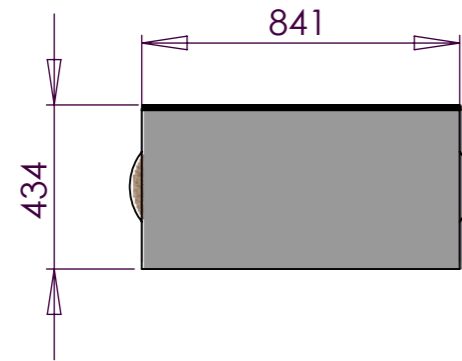


Scale: 1:1250



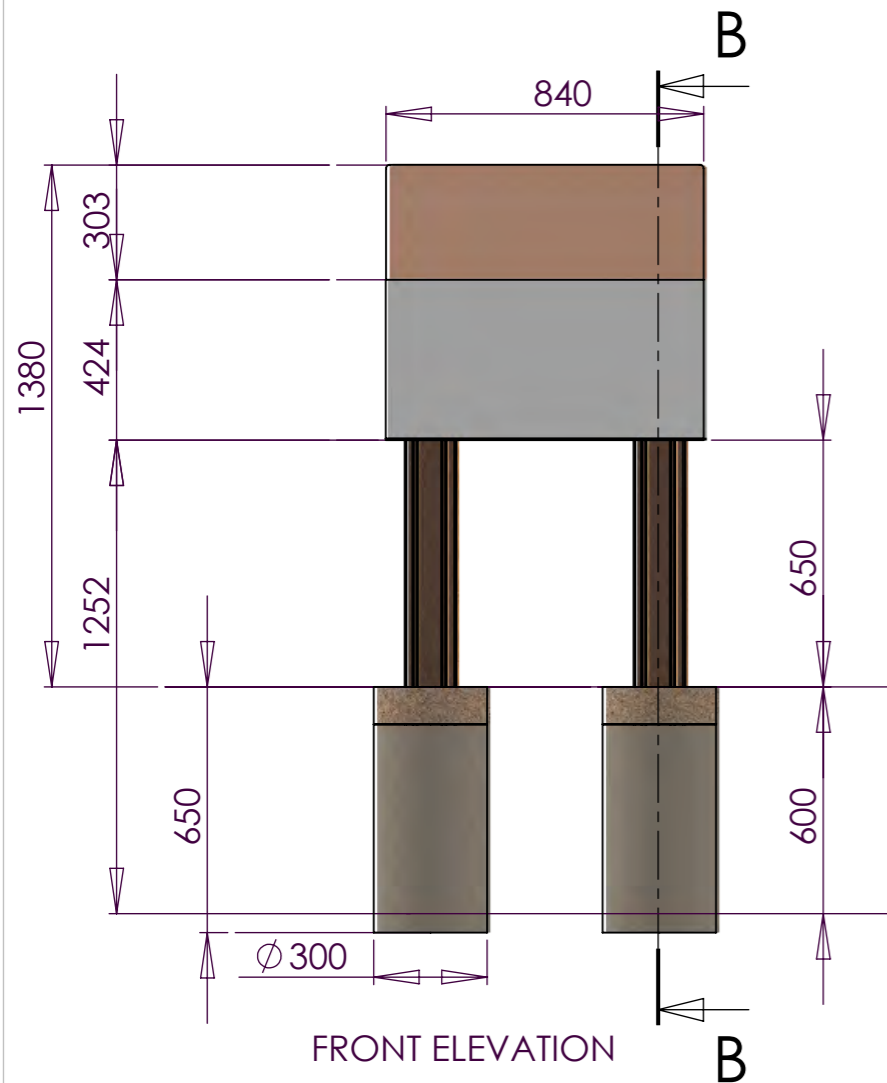
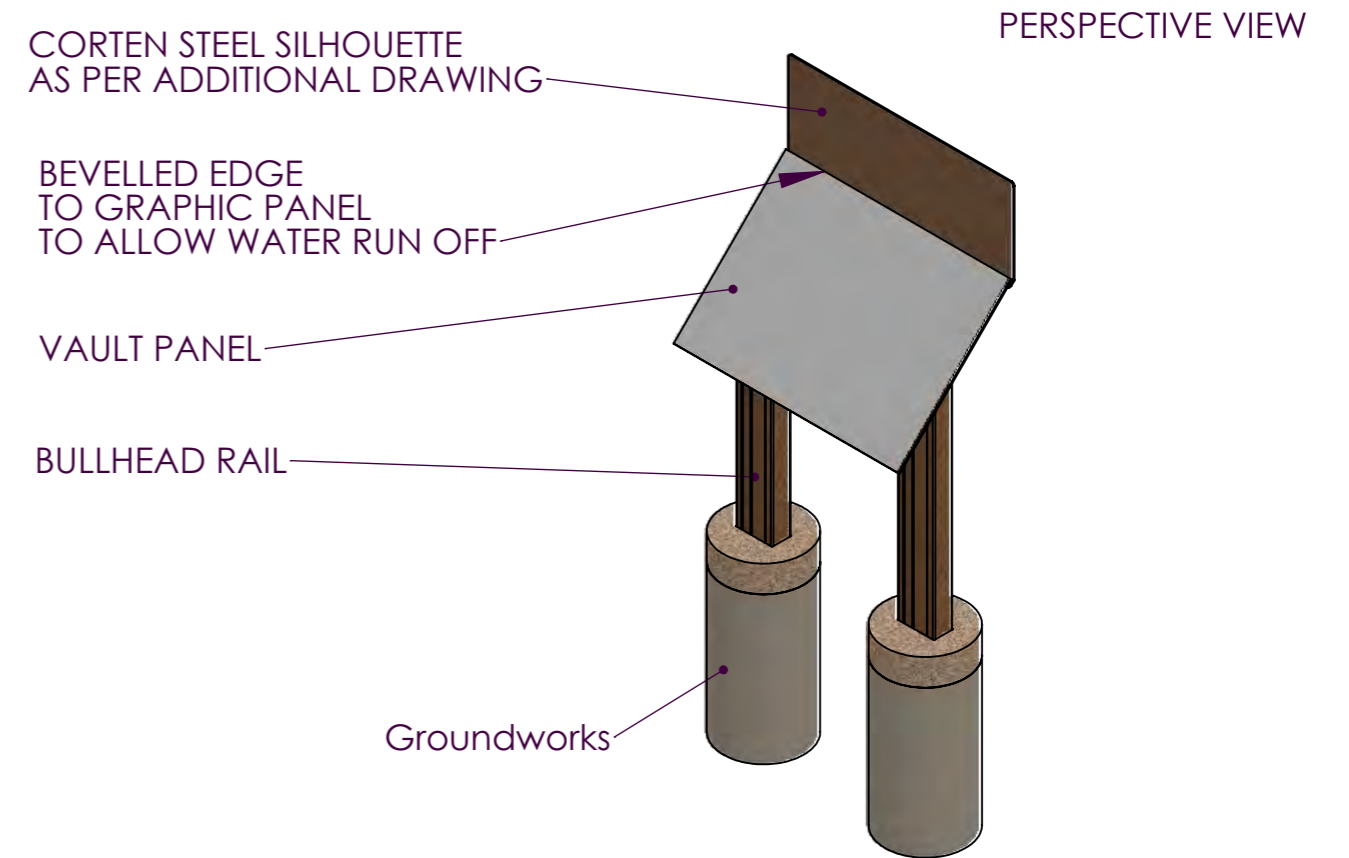
SITE LOCATION:

GROSMONT: GROSMONT VIEWPOINT  
 RAIL TRAIL: GOATHLAND INCLINE UNDER TREE  
 BECK HOLE STATION  
 NORTH BRIDGE FLOOD SITE  
 ROSEDALE: ROSEDALE BANK TOP  
 IRON KILNS  
 INGLEBY INCLINE: I BASE OF INGLEBY INCLINE

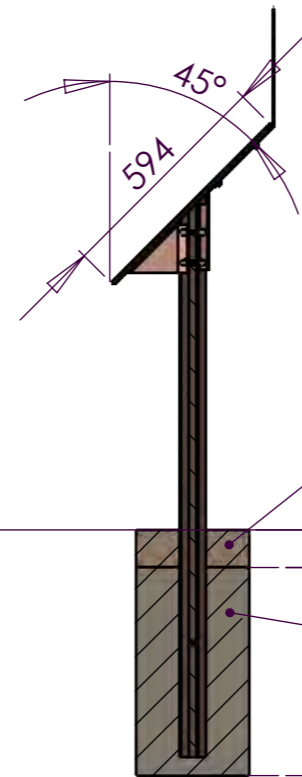


PLAN

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FRONT ELEVATION

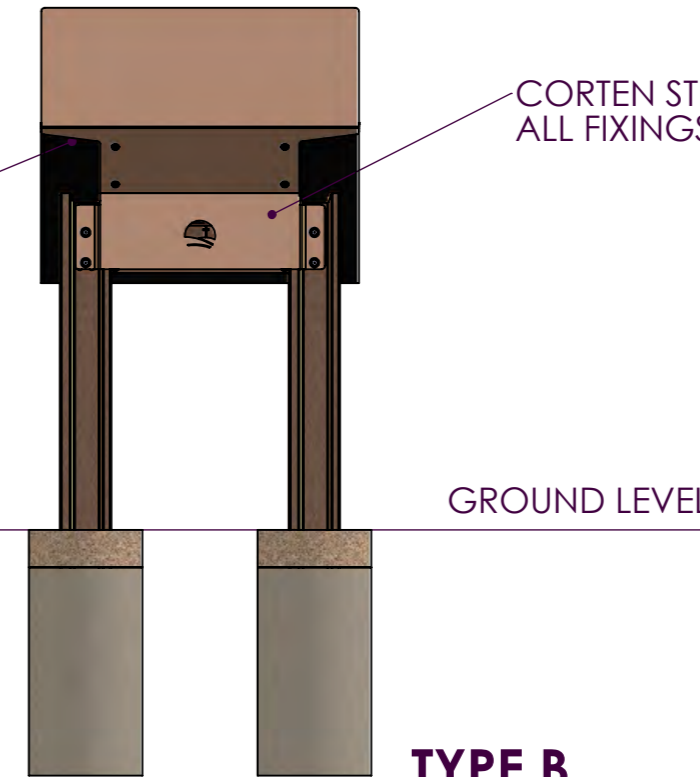


SECTION B-B

CHAMFERED DETAIL TO ALLOW WATER TO DRIP AWAY FROM BENCH

100mm DEEP LOCALLY SOURCED GRAVEL

20KG BAG POSTCRETE  
 5KG BAG OF HARDCORE



BACK ELEVATION

**TYPE B**  
 STANDALONE GRAPHIC PANEL  
 WITH SILHOUETTE

CLIENT: NORTH YORK MOORS NATIONAL PARK  
 PROJECT NAME: LAND OF IRON  
 PROJECT NO:  
 DWG TITLE: GRAPHIC PANEL WITH SILHOUETTE  
 DWG NO: LOI-GA-003  
 SCALE: 1:20

DATE: 05/12/18  
 REVISION: E  
 DRAWN BY: JC

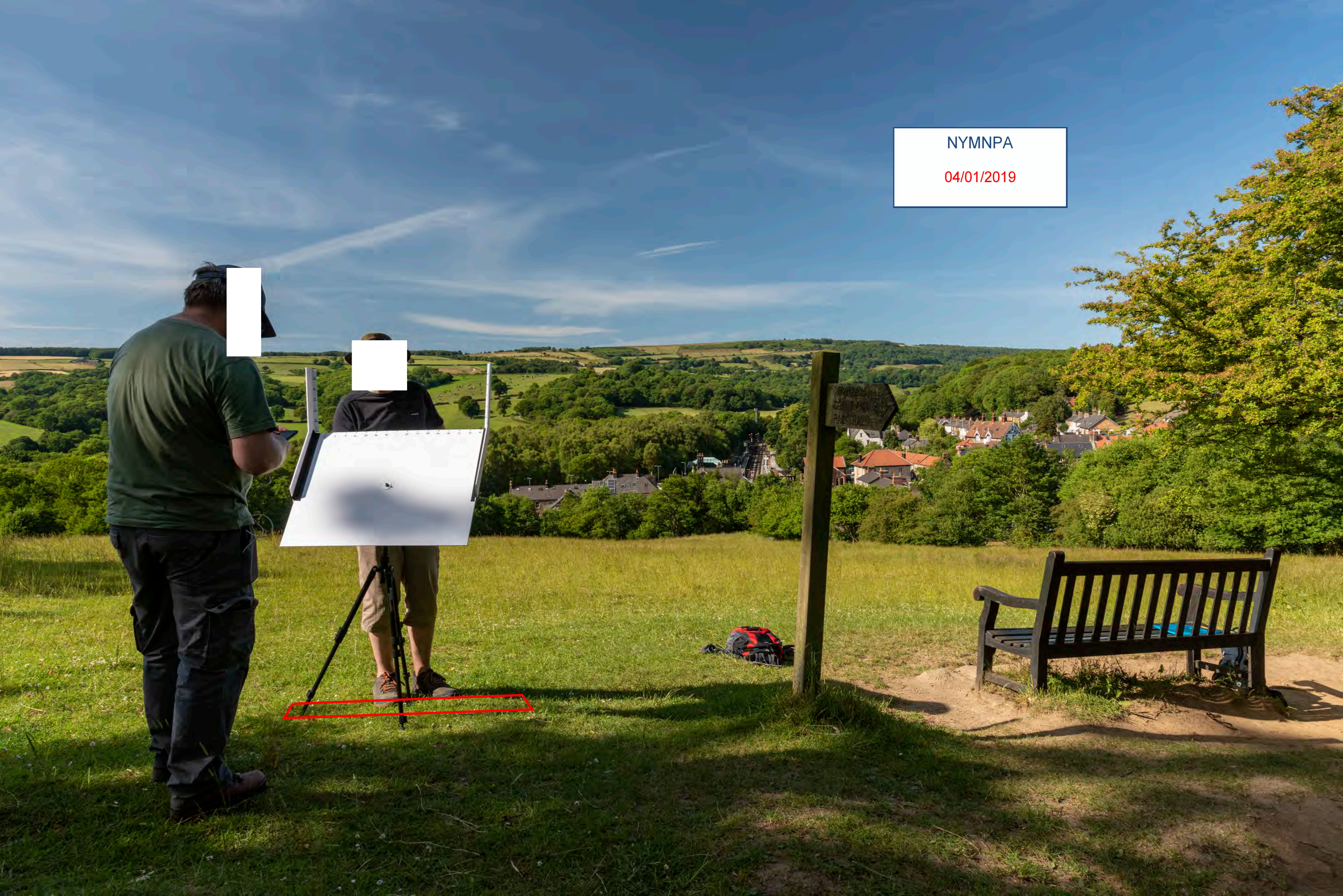
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# 2.7. MURKSIDe MINE

OS - NZ 81937 02321



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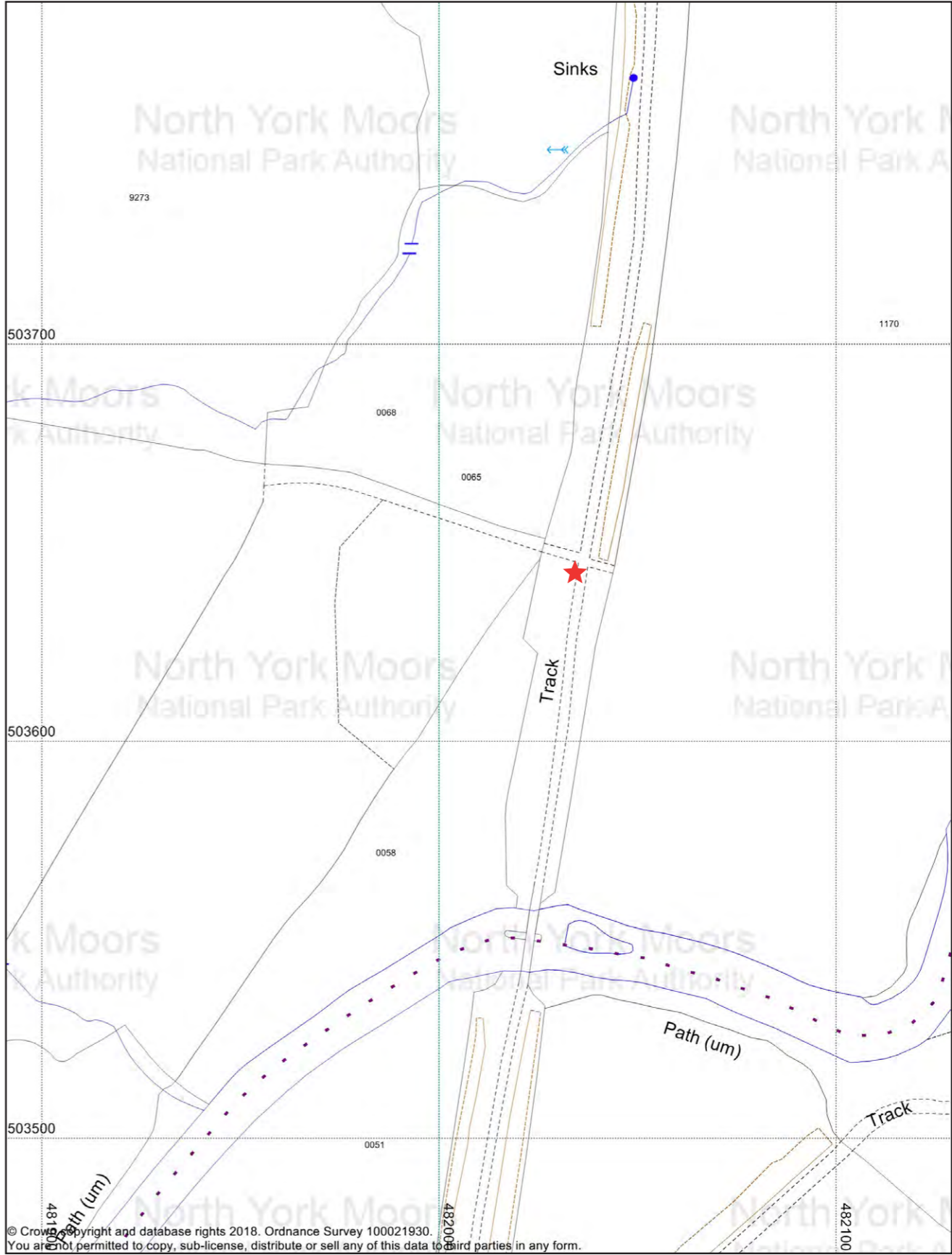
Murk Side Mine



North York Moors National Park Authority  
The Old Vicarage  
Bondgate  
Helmsley YO62 5BP  
01439 772700

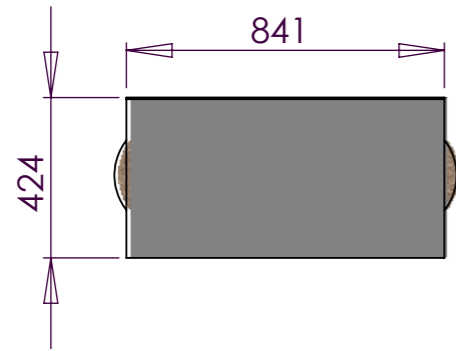


Scale: 1:1250

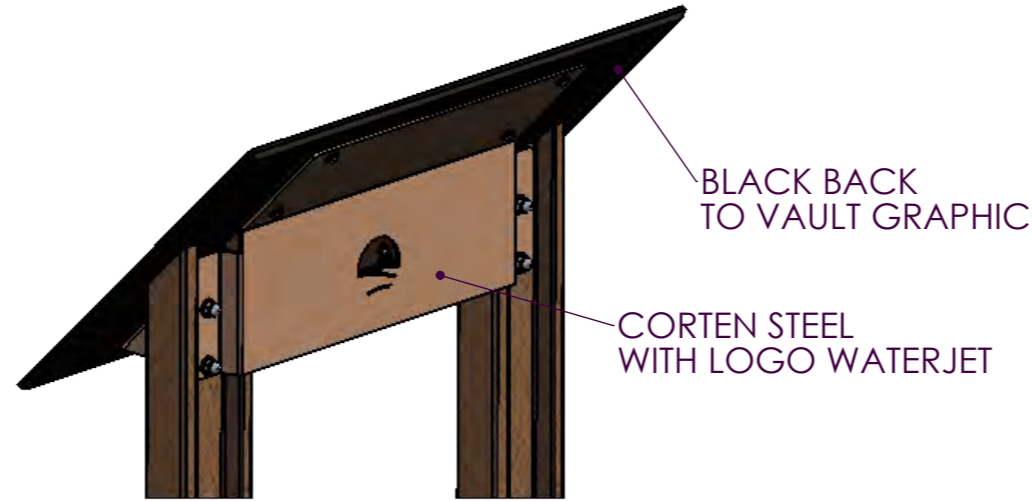


SITE LOCATION:

WARREN MOOR: MINE SITE  
 ROSEDALE RAILWAY: BLAKEY JUNCTION  
 RAIL TRAIL: MURKSIDe MINE

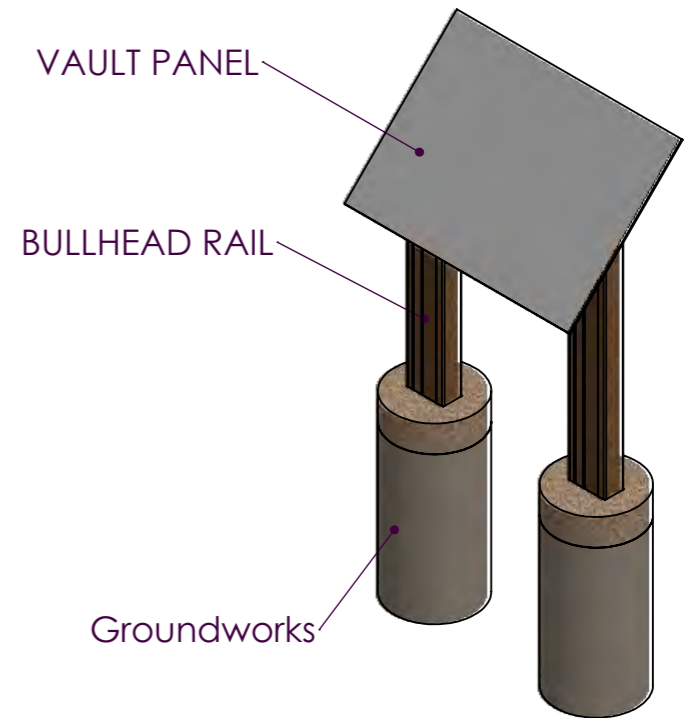


PLAN

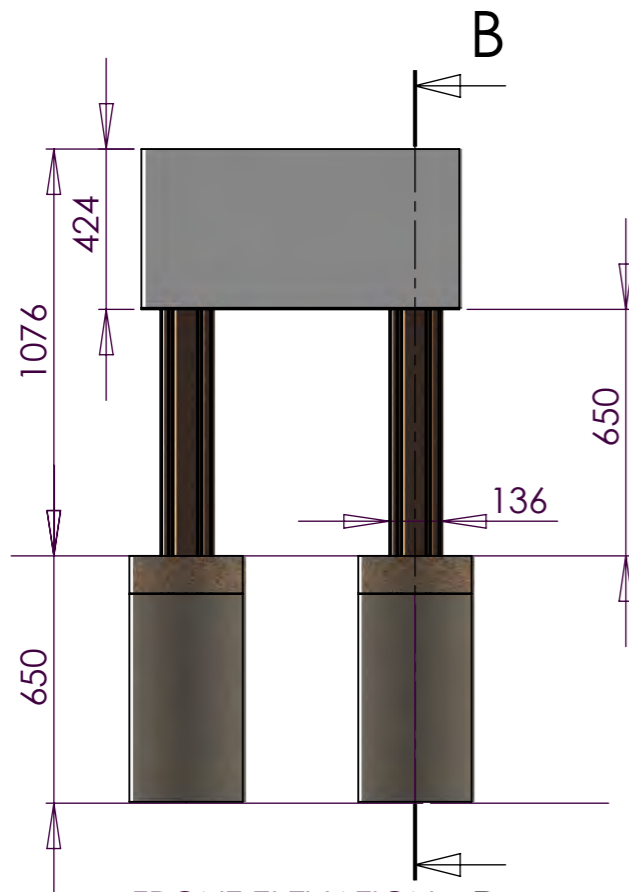


BACK DETAIL

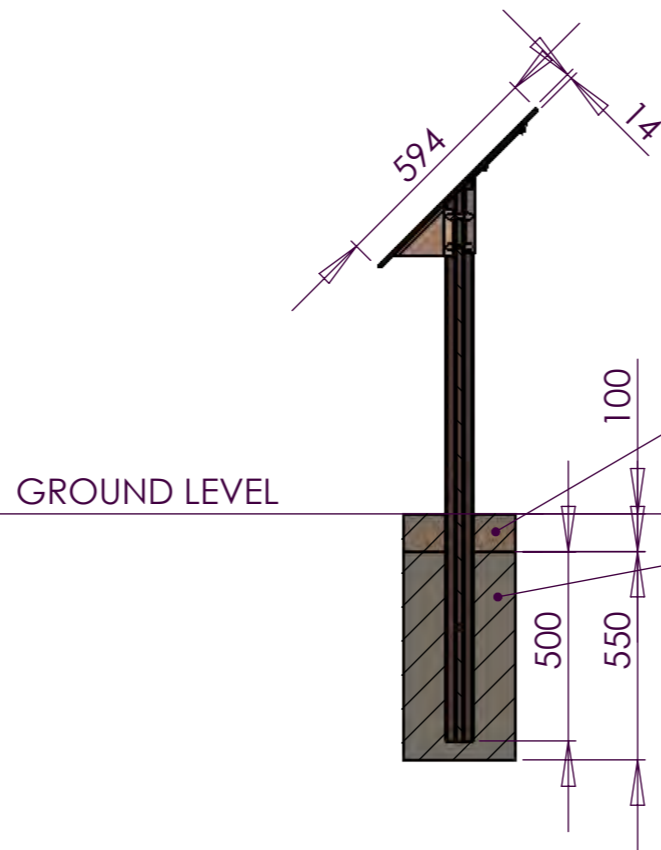
PERSPECTIVE VIEW



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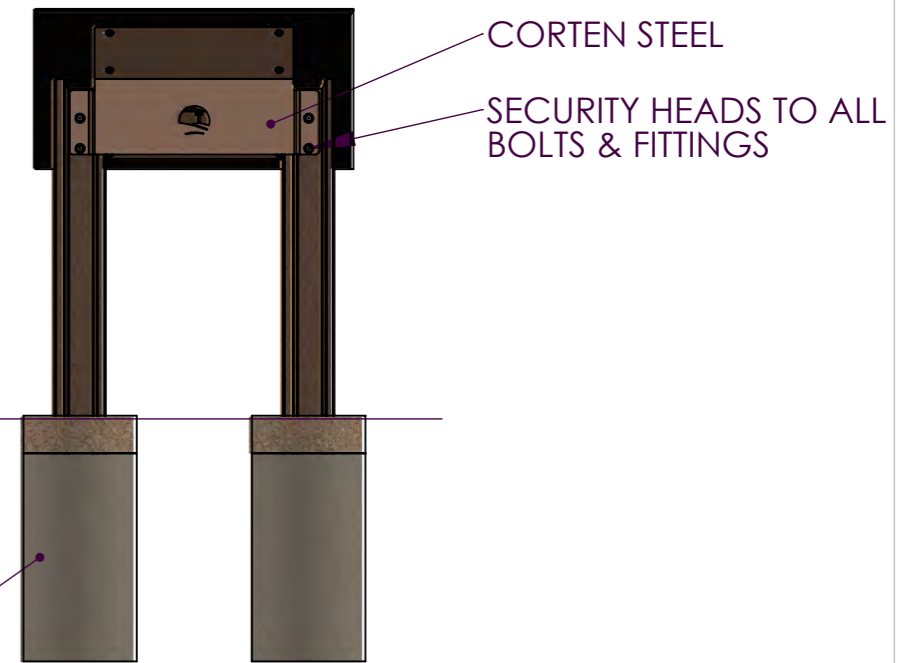
FRONT ELEVATION



SECTION B-B

100mm DEEP  
 LOCALLY SOURCED  
 GRAVEL

20KG BAG POSTCRETE  
 5KG BAG OF HARDCORE



BACK ELEVATION

**TYPE A**  
 STANDALONE GRAPHIC

CLIENT: NORTH YORK MOORS NATIONAL PARK  
 PROJECT NAME: LAND OF IRON  
 PROJECT NO:

DWG TITLE: STANDALONE GRAPHIC  
 DWG NO: LOI-GA-002  
 SCALE: 1 : 20

DATE: 05/12/2018  
 REVISION: E  
 DRAWN BY: JC

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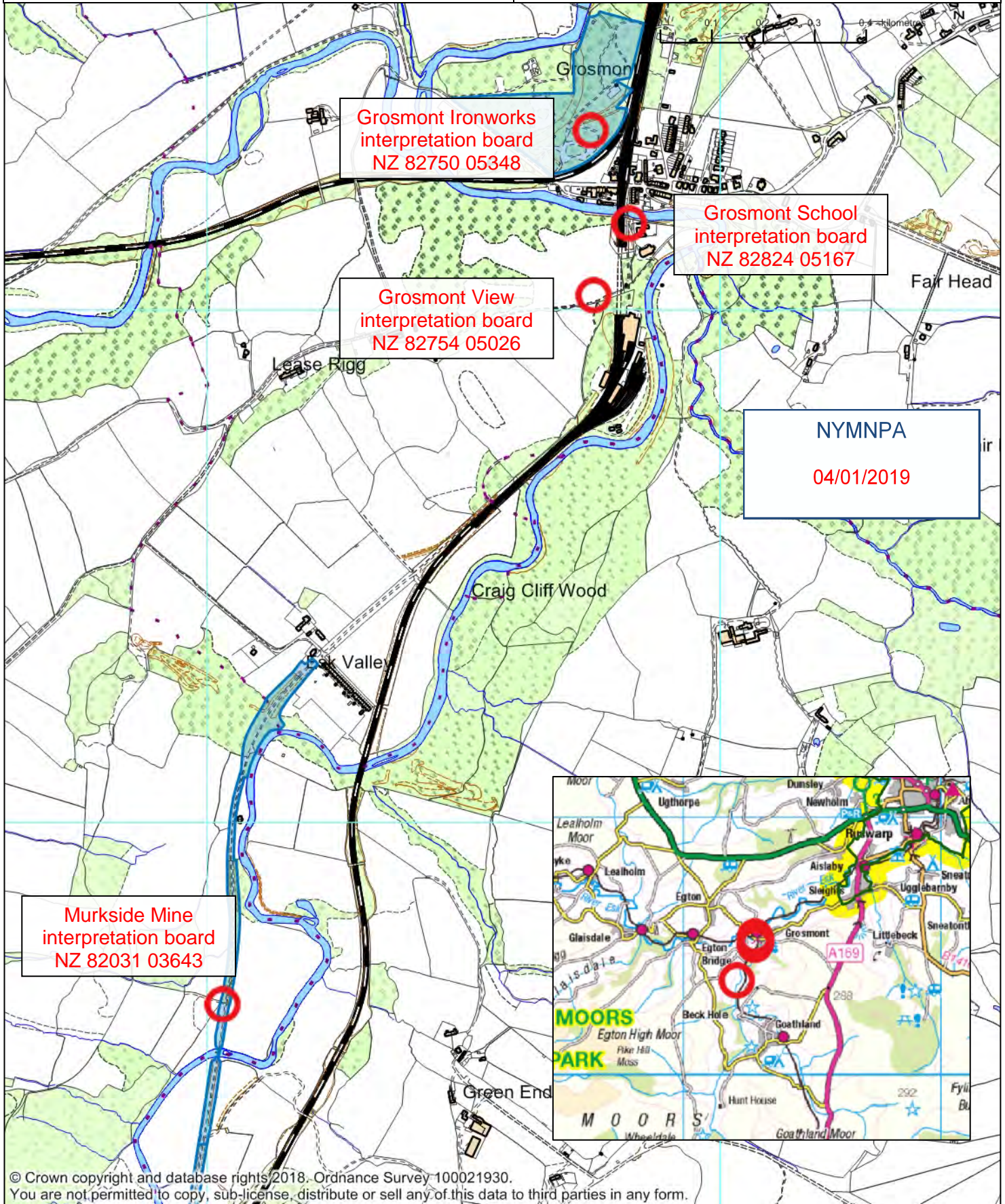


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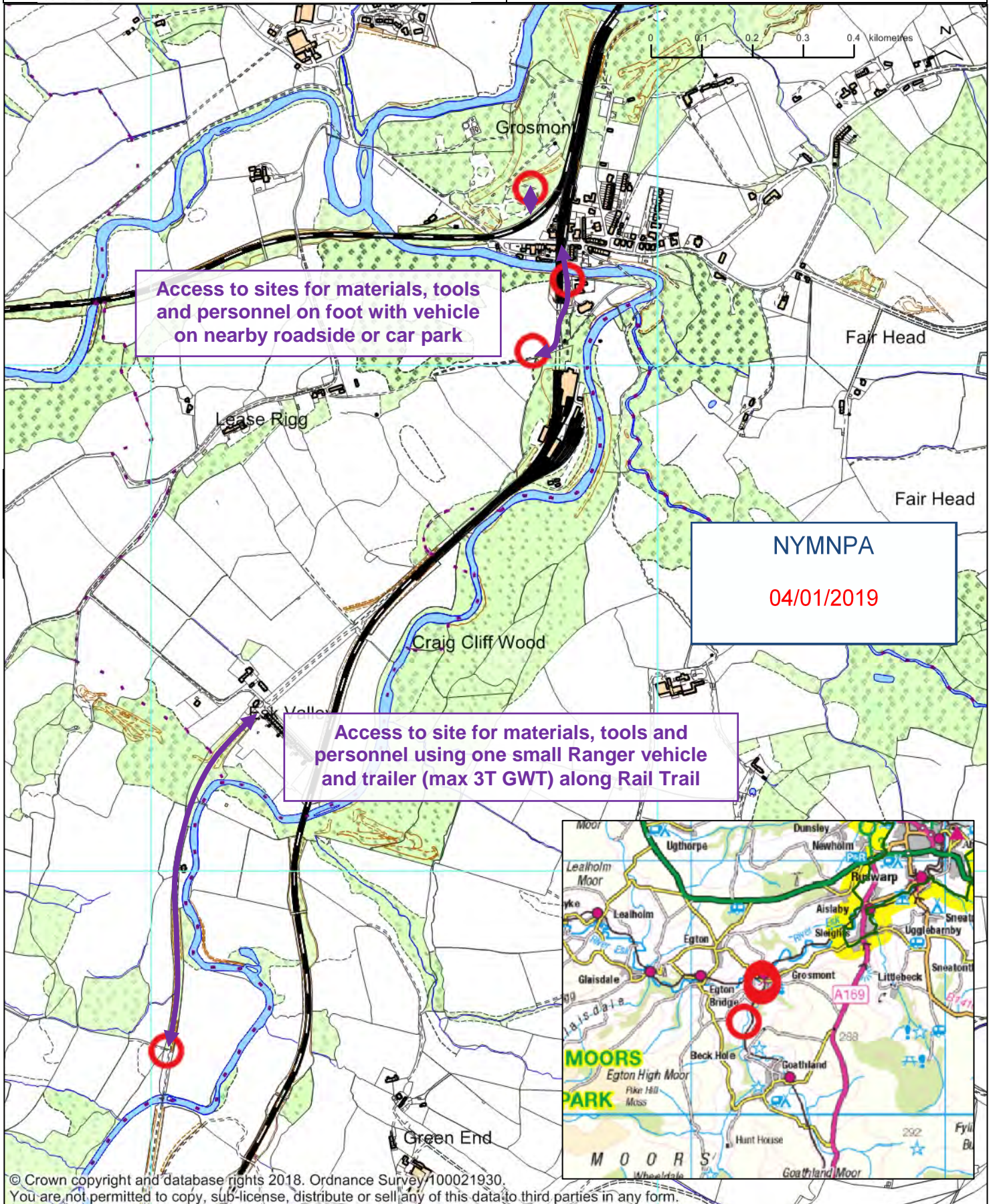




Funding raised by  
**The National Lottery**  
and awarded by the Heritage Lottery Fund



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<b>Project/Contract</b>	LOI external signage
<b>Contractor</b>	Leach Studio
<b>Site Address</b>	North York Moors multiple locations
<b>Project Start Date</b>	7/01/19
<b>Expected Duration Phase 1 Trial</b>	7/01/19 – 10 days
<b>Phase 2 Install</b>	23/04/19 – 10 days
<b>Projected Completion Date</b>	06/05/19

	<b>Name</b>	<b>Title</b>	<b>Signature</b>	<b>Date</b>
<b>Document Author</b>	Carl Clarkson	Project Manager		6/11/18
<b>Authorised by</b>	Andy Cope	Operations Manager		6/11/18
<b>Authorised by (for Client)</b>	Tom Mutton	Programme Manager		26/11/18
<b>Installers</b>	Jason Olive, Carl Clarkson			

<b>Emergency Contact Details</b>			
<b>Contact:</b>	Andy Cope	Carl Clarkson	Sarah Spurr
<b>Tel:</b>			
<b>Mobile:</b>			

### **Data Protection Statement**

The information and data provided herein shall not be duplicated, disclosed or disseminated by the recipient in whole or in part for any purpose whatsoever without the prior written permission from Leach Studio Limited.

The following method statement has been developed to provide a safe system of work and must be adhered to at all times, any significant deviation from this system must first be authorised by your manager or safety representative. **Please read the entire sheet before beginning, if you have any questions please contact your manager or safety representative.**

### **The main hazards to your safety and health are;**

- a) Injury from slips trips and falls.
- b) Injury falling from step ladders or Mobile Elevated Platform
- c) Injury from Manual Handling
- d) Injury from misuse of power tools

### **Preventative Measures you must take;**

- a) You must be "competent" to carry out the task.
- b) Warning signs must be placed at the work area
- c) Visitors and other members of staff are prohibited from entry unless accompanied by competent person.
- d) You must follow all directions given by the project manager or his agents

### **Personal Protective Equipment you may be required to wear;**

- a) Safety boots
- b) Hi-Visibility Jackets
- c) Hard Hats
- d) Gloves and eye protection when mixing concrete

### **Environmental Protection Measures you must take;**

Work to be carried out in environmental and historically sensitive and protected areas. All work to comply with appropriate consents and all staff to be aware of designations and constraints at each site.

All waste products to be removed from all sites by Leach Studio and disposed of within company policy.

### **Quality Control:**

- a) Adhere strictly to the following procedure to ensure quality of service
- b) If in doubt contact your manager for clarification before proceeding.

### **The installation of Graphic Panels**

#### **Task Description**

This method statement describes the work process for installing external structures into the ground

- a) Site establishment alongside tenants, land users and Landowners.
- b) Public warning and safety.
- c) Preparation.

- d) Installation.
- e) Finishing.

### **Staff & Training**

The projects will be carried out by staff from Leach Studio Limited. All members of staff are experienced and hold the following qualifications; PASMA. A site manager will be appointed to each contract who will be responsible for quality and safety. Apprentices and young workers will be supervised and are not allowed to carry out tasks for which they have not been trained.

### **PPE**

All site workers will wear Safety Boots, and High Visibility Jackets and Hard Hats as directed, other items of PPE such as eye protection are available to be worn as and when necessary.

Site survey to be arranged to cover remote locations to ensure a safe site plan is put in place to cover Leach studio installers, public, landowners, project team and livestock/wildlife.

### **Preparation & Induction**

All members of staff required to work on any contract will be given copies of risk assessments and method statements, any queries or concerns will be raised with the contract manager who will ensure it is dealt with. Staff will be inducted onto each site by the principle contractor or contract manager, and will follow all site rules and safety procedures.

### **Welfare**

The principle contractor is responsible for providing adequate washing, toilet, drying and refreshment facilities for staff and sub-contractors, staff and contractors are responsible for ensuring that such welfare facilities are maintained in a clean and wholesome manner.

### **First Aid**

It is the responsibility of all sub contractors to ensure adequate first aid provision for its staff; Adequate means provision of suitable first aid equipment and the provision of an appointed person.

### **Site Access and Egress**

The principle contractor is responsible for providing safe access and egress to the site, Leach Studio staff will ensure safe access and egress is maintained for themselves and other contractors in the area they are working in, good standards of housekeeping will be maintained.

### **Material Handling**

All materials required for site will be unloaded to a designated unloading and storage area which will be away from the work area as far as is practicable. This area will be kept tidy to minimise trip hazards. Materials as and when required will be collected from the storage area to the work area. All staff will take care when handling materials. No materials to be stored or mixed on bare ground (see procedures below in Method Statement).

### **Manual Handling**

All staff have been instructed on the potential dangers of manual handling, and have received manual handling training. Staff will not lift items of tools or equipment beyond their capabilities. Heavy or awkward items will be broken down into smaller pieces or dual lifted where this is not

possible. It is the responsibility of the site foreman to identify and control potentially dangerous manual handling situations as they occur on site on a day to day basis.

### **Contractor/Visitor Safety**

Leach Studio will liaise with other contractor's staff on a day to day basis and ensure they are aware of the risks present during the works. Staff and contractors will not leave any area of work in a dangerous condition or with risks to themselves, other contractors, tenants, or visitors, all tools and equipment will be cleared to secure storage at the completion of each shift.

## **Method Statements**

### **Prior to starting work – to cover trial excavation 7/1/19 and main install 23/4/19**

Inform tenant/landowner and other occupants of work commencing and cordon off work area if practical to do so, ensuring that public access routes are kept open with minimal impact to the public.

(Installers to refer back to site visit information – December 2018, for any additional requirements for each individual site, this will advise on minimising any obstructions for each site to ensure all rights of way can be maintained throughout the install).

Particular attention should be paid to public access routes where children are present; children and adults must be kept away from the work area at all times.

Check with Landowner and Main Project contact for any other possible issues at each site.

Main considerations for –

- Wildlife. Check for nesting birds in the area, confirm with Client team best course of action to best minimise disruption and impact.
- Livestock. Check access routes to each location and ensuring that all installers are aware of each sites requirements. Special care to be taken with any tools, rubbish and substrates to be kept away from livestock.
- Services. Leach Studio to check for any underground services prior to commencing work. This will have been done and reported back during December 2018 site visit but should be reconfirmed prior to starting works.
- Surrounding trees. Root protection areas for surrounding trees to be identified in advance of any work and install sites selected outside of these wherever possible. No damage to be caused to surrounding trees, no roots above 25mm diameter to be severed.

### **Commencing Work – to cover trial excavations 7/1/19 and main install 23/4/19**

- Check all points above have been covered.
- Ensure Personal Protective Equipment is worn at all times.
- Keep work area clean and tidy at all times, ensure public access routes are clear of any possible hazards.
- Place Warning signs at the extremes of the work area prior to the work commencing.
- Physically check the condition of all equipment before and after use
- Check graphics and lecterns are free from damage caused by transit.
- STOP IF YOU THINK THE RESULT MAY NOT BE ACCEPTABLE.

### **Hole excavation in sensitive areas – to cover trial excavation 7/1/19**

1. Put on your personal protective equipment

2. Set up Cordon equipment and check access routes are sufficient and clear of any obstructions.
3. CAT scan area for services by Qualified Operative.
4. Protect immediate area with Tarpaulin.
5. Remove top 100mm of turf and set aside.
6. Dig holes using hand tools ONLY in spits no greater depth than 0.2m, stopping at intervals to allow inspection by archaeologist. Spoil to be stored on surrounding tarpaulin for back filling (test excavation only).
7. If items/features of interest are found, they should be assessed by the archaeologist on site and recorded. If deemed to be of significance, digging to cease at this location and new location explored.
8. Client to confirm if test pits are to be continued or moved to new location.
9. If test pits are continued, they are to be dug further using hand tools only.
10. Test pits to be dug to pre-determined depths as per approved drawings.
11. Test specific silhouette and sign requirements per hole. Agree with client team exact depth and location. Take photographic record.
12. Test pits to be tarpaulin bagged and back filled with spoil from site for ease of works later in the programme. Turves to be replaced within same day and tamped down.
13. Finished test pits to be left safe, work to be signed off main schedule as safe.

#### **Sign Installation – to cover main install 23/4/19**

1. Check all points raised 'Prior to starting work' section have no major changes and can be fully adhered to.
2. Put on your personal protective equipment
3. Set up Cordon equipment and check access routes are sufficient and clear of any obstructions.
4. Protect immediate area with Tarpaulin.
5. Remove top 100mm of turf from existing hole and set aside.
6. Dig holes using hand tools ONLY in spits no greater depth than 0.2m.
7. If install to be carried out under a watching brief, stop at intervals to allow inspection by archaeologist. If items/features of interest are found, they should be assessed by the archaeologist on site and recorded. If deemed to be of significance, digging to cease at this location and new location explored.
8. Check hole condition, depth and stability.
9. All mixing and handling of Postcrete to be carried out on tarpaulins to prevent spillage. Mix up small amount of Postcrete ready mix concrete and pour to base of hole to a depth of 50-60mm to give a level base. Allow to set.
10. Test-fit sign element to check alignment/position is correct.
11. Mix up 20 kg bag of Postcrete and add in 5-10kg of hardcore/rubble to add stability and strength.
12. Pour full mix into hole to a depth 100mm short to allow for gravel and top turf to be placed back in. Camber top of concrete to shed water away from post.
13. Place gravel around posts and replace turves within same day and tamp down
14. Structure to be structurally supported to ensure no movement whilst concrete sets.
15. Remove supports and clean down metalwork.
16. Fit and secure all graphic and timber sections.
17. Clean down hole unit, check all mechanical fixings. Take photographs and get client sign off.

18. Remove all waste and tools to the van, take down cordon and check work area is clean and safe.

**Working Adjacent to a public footpaths / permissive footpath routes.**

1. Put on your personal protective equipment and High Vis
2. Cordon off the working area with barriers
3. Work to cease if pedestrians are passing
4. Ensure public access is kept clear and safe at all times.

**Cleaning and Handover**

1. The work area will be cleaned prior to handover; all waste and debris will be removed from site by Leach Studio team and disposed of in line with company waste policy.
2. The site manager will check all work prior to handover
3. Handover to client or site agent

**Care of equipment**

1. All items must be thoroughly cleaned at the end of each shift
2. All items should be stored out of reach of Public and Livestock.