



Piling works at Euston Approaches

October 2020 | www.hs2.org.uk

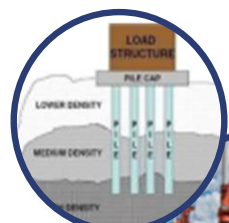
High Speed Two (HS2) is the new high speed railway for Britain. Over the next four years we will construct over 2,000 underground piles between Hampstead Road and the northern end of the Euston Approaches to create the foundation for the future railway.

What is piling and why do we need it?

Piles are structures we build or install vertically into the ground to provide strength and support to an above-ground structure or an excavation. Our piles, made of concrete and steel, create safe foundations by transferring the weight of the future structure above into the hardest ground or rock deep underground.

There are various piling methods used in construction and we have chosen the quietest methods available. We will construct auger-bored concrete piles through the Euston Approaches as well as use sheet piling.

Auger boring



Our piles are constructed with a piling rig drilling a deep hole into the ground with an auger (a drill resembling a large corkscrew).

Drilling or boring this way is far quieter than hammering piles into the ground.



A crane then places a steel cage into the hole as concrete is poured in to

fill the hole. Once the concrete pour is started, it must be finished the same day to ensure the pile is constructed safely and allowed to set overnight.

To complete concrete pours of this size, we need to work until 10pm each weekday evening although we will always aim to finish earlier if possible.

Once a row of piles has been constructed, we break down the exposed concrete until it is even and install a concrete platform, or 'pile cap', on top to tie the structure together and add strength.

- 472 piles around Hampstead Road Bridge
- 159 piles around Granby Terrace Bridge
- 360 piles in the area between Hampstead Road Bridge and Granby Terrace Bridge
- 984 piles in the area between Granby Terrace Bridge and Mornington Street Bridge
- 152 piles in the northern most end, near the proposed Euston Cavern
- Piles are up to 50m deep and 1.8m across in width
- A 30m high drilling rig drills holes 40m deep using the quietest methods available
- Cranes lift long steel cages into concrete-filled holes to reinforce the piles

Working hours

4 November to March 2024

Monday to Friday from 8.00am-6.00pm and Saturday 8.00am-1.00pm

Concrete pours until 10.00pm some weekdays

On site for an hour before the start and/or at the end of each shift

24/7 works during railway closures over Christmas and spring 2021, with noisy works concentrated in core hours whenever possible

Sheet piling

Sheet piling involves pressing metal sheets, or pre constructed piles, into the ground using a hydraulic press. This technique is very quiet as opposed to driving or vibrating techniques.

There may be times we hit buried obstacles but otherwise, we would not expect nearby residents to notice this type of piling.

What equipment will I see?



A 26-meter (approx. 10 storeys high) high piling rig, cranes, excavators, polymer storage silos and concrete trucks are used for piling works.

Piling materials, such as reinforcement cages, are delivered on articulated lorries and concrete in concrete wagons.

How will the impacts from the works be managed?

As with all our works, we do our best to reduce impacts as much as possible and include

- working within legal noise thresholds
- minimising noise by screening works and controlling noise and vibration at the source, such as using the piling rig in 'eco' mode
- using a special attachment to clean the drill during piling as quietly as possible
- using super-silence generators
- fitting percussion tools with mufflers or dampers

Keeping you informed

We are committed to keeping you informed about work on HS2. This includes ensuring you know what to expect and when to expect it, as well as how we can help.

Residents' Charter and Commissioner

The Residents' Charter is our promise to communicate as clearly as we possibly can with people who live along or near the HS2 route.

www.gov.uk/government/publications/hs2-residents-charter

We also have an independent Residents' Commissioner whose job is to make sure we keep to the promises we make in the Charter and to keep it under constant review. Find reports at:

www.gov.uk/government/collections/hs2-ltd-residents-commissioner

You can contact the Commissioner at:
residentscommissioner@hs2.org.uk

Construction Commissioner

The Construction Commissioner's role is to mediate and monitor the way in which HS2 Ltd manages and responds to construction complaints. You can contact the Construction Commissioner by emailing:

complaints@hs2-cc.org.uk

Property and compensation

You can find out all about HS2 and properties along the line of route by visiting:

www.gov.uk/government/collections/hs2-property

Find out if you're eligible for compensation at:

www.gov.uk/claim-compensation-if-affected-by-hs2

Holding us to account

If you are unhappy for any reason you can make a complaint by contacting our HS2 Helpdesk team. For more details on our complaints process, please visit our website:

www.hs2.org.uk/how-to-complain

Contact Us

Contact our HS2 Helpdesk team all day, every day of the year on:



Freephone 08081 434 434



Minicom 08081 456 472



Email HS2enquiries@hs2.org.uk

Write to:

FREEPOST

HS2 Community Engagement

Visit us at the former National Temperance Hospital at 112 Hampstead Road, London NW1 2PS.

Websites: www.hs2.org.uk
www.hs2inCamden.co.uk

Please contact us if you'd like a free copy of this document in large print, Braille, audio or easy read. You can also contact us for help and information in a different language.

HS2 Ltd is committed to protecting personal information. If you wish to know more about how we use your personal information please see our Privacy Notice

<https://www.gov.uk/government/publications/high-speed-two-ltd-privacy-notice>

High Speed Two (HS2) Limited, registered in England and Wales. Registered office: Two Snowhill, Snow Hill Queensway, Birmingham B4 6GA. Company registration number: 06791686. VAT registration number: 181 4312 30.

Somali

Fadlan nala soo xiriir haddii bug-yarahaan bilaashka ah ku rabtid daabacad far waa-wayn, qoraalka indhoolaha, hab maqal ah ama si fudud loo akhrin karo. Waxaan xittaa macluumaadka ku bixin karnaa luqado kala duwan. Qof ayaad ka codsan kartaa inuu wakiil ka noqdo markaad la hadlayso HS2 Ltd.

Español

Póngase en contacto con nosotros en caso de que desee recibir una copia gratuita de este folleto en caracteres grandes, braille, audio o en formato de lectura fácil. También podemos proporcionar la información en distintos idiomas. No dude en pedirle a alguien que le represente en cualquier conversación con HS2, Ltd.

Français

Merci de nous contacter si vous désirez une copie de cette brochure en grands caractères, en braille, en version audio, ou en lecture simplifiée. Nous pouvons également vous fournir des informations dans différentes langues. Vous pouvez demander d'être représenté(e) par un tiers pour tout échange avec HS2 Ltd.

Bengali

যদি আপনি এই প্রচারপত্রটির বড় অক্ষর, অডিও বা সহজ পাঠ্যযোগ্য দৃশ্যমূলক প্রদর্শন চান তবে আমাদের সাথে যোগাযোগ করুন। আমরা আপনাকে এইচএস২ লিমিটেড (HS2 Ltd.)-এর সারা বছর ক্রান্তি আর্কাইভে আপনাকে প্রদান করা হবে।