

Northern Line Extension

BI-MONTHLY UPDATE

May-June 2016

Nine Elms

Thank you for your patience whilst we continue with the Northern Line Extension (NLE) works near you. We would like to update you on where we are and what is planned for the next four to eight weeks.

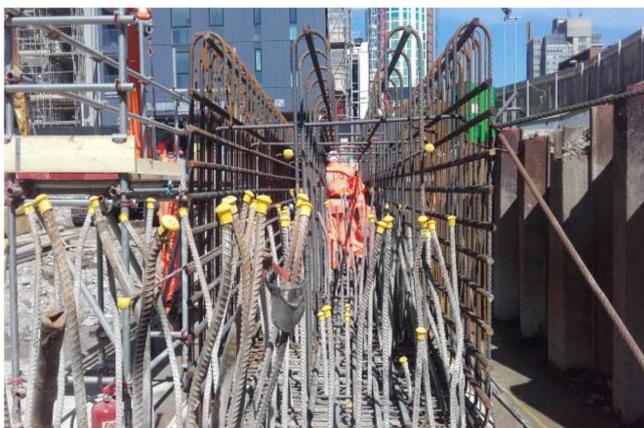
What has been completed:

One of the main activities carried out over the past few months was the first phase of plunge column (steel beam) installation. Ten of these 27 metre columns were lifted by crane and installed inside a number of the piles in the centre of the future station box. They are used in basement excavation and will assist in supporting the over site development (OSD). Due to the nature of these complex operations, extended hours were granted. The second phase is due to commence in June.

Mid-April saw the delivery of a new piling rig; a more modern, efficient and quieter piece of machinery. 60% of piles have been completed since this activity commenced.

As part of the temporary works activities, a concrete guide wall was formed around the perimeter of the NLE site, which is critical for the correct positioning and alignment of the piles for the construction of the main wall. Having completed piling along the eastern end of site (adjacent to Wandsworth Road), the guide wall is no longer required. 59 metres of guide wall has been removed so far. This is expected to be complete by the end of 2016.

The guide wall removal is taking place at the same time as the construction of the capping beam. This is where a steel cage is strategically placed over the existing piles and interlocks with the rebar (Please see image below). These cages are then encased in concrete to produce the capping beam. This will structurally connect all of the formed piles, provide ground support during excavation and help to equally distribute the future load of the OSD. The construction of the beam will follow the same line as the perimeter wall, progressing from the Wandsworth Road end of site along Pascal Street towards Covent Garden Market.



Steel cage reinforcement for capping beam installation



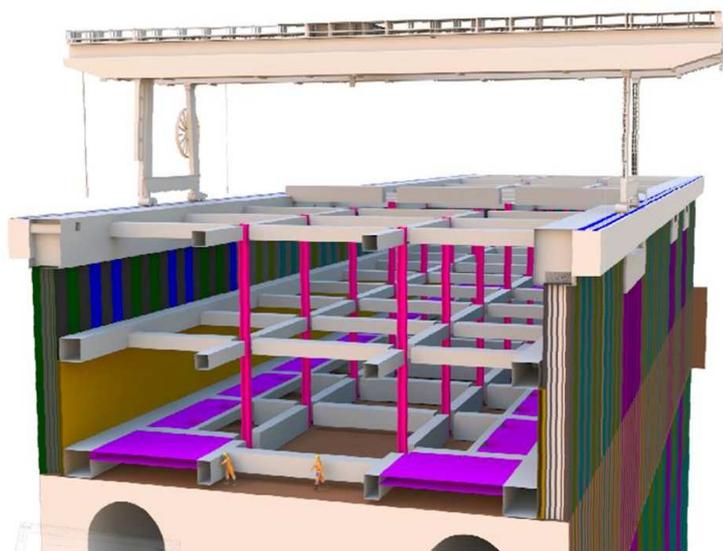
An overview from Wandsworth Road of the capping beam preparatory works

What is planned:

Piling works will continue to take place along the eastern and western side of the NLE site.

At the beginning of June, we expect the delivery of a gantry crane (see image below). This piece of apparatus will be assembled on site, straddling the width of the NLE work area. It will be used to lift all the pre-cast beams into the main excavated station box. These beams will essentially form the framework of the station box. Due to the size of the gantry crane, this abnormal load will be delivered outside of core working hours in accordance with the Highways Authorities' regulations and as instructed by the Metropolitan Police. We will advise the community when this is due to take place.

You will have noticed a green tripod style rig in the middle of the NLE site (see below). The team are using this to drill bore holes in the ground to study the condition of the layers of soil at depths before piling can continue in that area.



An illustration of the positioning of the gantry crane



Bore hole drilling activity

Our core hours :

0800 to 1800 Mondays to Fridays and 0800 to 1300 on Saturday

Your feedback is important to us. Please do get in touch if you have any questions about the works.

If you have any concerns or queries, please contact us at nle@tfl.gov.uk

or call our 24/7 helpdesk on 0343 222 2424

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