Chalfont St Peter Construction Update - January 2021



Chalfont St Peter Vent Shaft – View at Year 15



Chalfont St Peter Construction Activities

We are currently undertaking D-walling to create the outside of the vent shaft

Panel creation

At Chalfont St Peter there are 16 panels which need digging to create the outer ring. Each panel is slightly deeper than the tunnel itself. At this location that is just over 80 metres.

Once the D-wall rig has dug out the panel, the process to pour the concrete and create it takes 24 hours. Once the concrete starts to pour, the process needs to continue to prevent a weak/cold joint in the wall or a collapse. All of our HGVs now use the temporary access road we have built to prevent them having to go through the village.







Construction site



Temporary access road





Chalfont St Peter Construction Programme

We are progressing well with the permanent works to create the vent shaft at Chalfont St Peter. Below is an indicative timeline of construction activities. We have highlighted those which may be more noticeable to local residents.

January 2021

Diaphragm Wall (D-wall) construction.

Visual impact:

Cranes, cutters, and D-Wall rigs will be visible on site.

Noise impact:

Extended working hours will be required on some nights and weekends, and end of January will require 24/7 working.

Traffic impact:

This will be one of the busiest periods for site traffic.

April 2021

Excavation of vent shaft.

Creation of vent shaft connection with tunnel prior to Tunnel Boring Machines arrival.

Noise impact:

Earthworks and stockpiling activities at surface.

October 2021

Vent shaft shallow box piling.

Noise impact:

Earthworks and stockpiling activities at surface. Short periods of percussive piling will occur. Extended working hours may be required on some days and weekends.

February 2022

Tunnel Boring Machines arrive underneath the vent shaft and connection is established.

Construction of internal vent shaft structures (floors and access).

Small basement works.

December 2023

Construction of the headhouse and surface structures.

Electrical outfitting and machinery installation.

Landscaping.

Late 2024

Construction complete.



