

## A284 Lyminster Bypass (North) – April Progress Update

Date: 07/05/2024

This is the latest monthly newsletter updating you on progress made in the construction of the Lyminster Bypass. We hope you find it useful, but please contact us if there is anything you would like more information on or would like to give us any feedback.

As you may be aware, there has been and will be intermittent periods of traffic lights along A284 Lyminster Road. Please be advised that traffic management will only be used when necessary for workers safety or physical carriageway intrusion of construction works, flexibility is required to maintain programmed operations.

### North of Ancient Hedgerow

Since finishing the soil mixing north of the culvert, we have undertaken Cone Penetration Tests and core sampling. This gives an idea of the soil parameters of the newly cemented soil, including strength, ensuring settlement (movement over time) of the new road is negligible.

The chalk embankment just south of Brookfield stream has also been tested. The plate bearing test showed that the chalk was a very solid foundation and so further drainage works have continued. We have a badger crossing in this area, this is a 600mm diameter set of concrete pipes which run underground, with the idea of preventing badgers from wandering on the road.

Sheet piling has begun for the new culvert. The metal sheets are used to surround the culvert as it is installed. This is because a trench is dug out for the culvert and the metal sheets prevent it collapsing. These are installed using two machines which lift and vibrate the pile into the augured holes, the augured holes were made by churning the ground up to 9m depths to loosen it so the piles go in easier.

The northern swale has been built up, consisting of 4 check dams made by stacking concrete bags in a synchronised format. These are used to slow the flow rate of water which enters Brookfield stream, preventing a flash flood and provides extra storage for water.



Image 1 Sheet piling.



Image 2 Badger crossing dig out.



*Image 3 Swale with concrete check dams*

### **Ancient Hedgerow to Bridleway**

The link road has been scraped back to the formation of the subgrade material (the original ground material that was present on the site). Profile boards were used for this which is common practice to ensure the link road is to the correct level we use wooden profiles which run along both sides of the road. These are made up to be 1m above the finish road level. Once they are installed another board, is held in the middle. By eyeing along the boards, it can be seen how far down the ground level needs to be dug.

The subgrade material is tested with a CBR (California Bearing Ratio) test; applying a large amount of force to a localised area and recording how much the area settled. Once the test has been passed, the area is ready to be laid with the subbase material, type 1 aggregate (a type of limestone).



*Image 4 Link road.*



*Image 5 Link road with type 1 aggregate.*



### Bridleway to Black Ditch

April finishes off our concrete pours on the viaduct. The ends of the viaduct have had a waterproof coating applied and the drainage along the edge wall has been installed, this is so the excess rainwater has somewhere to drain. The embankment by the northern end of the viaduct is being built up in layers and each is tested to prove it is sufficiently compacted.



*Image 6 Northern end of the viaduct*



*Image 7 Concrete deck by the end of viaduct*

### South of Black Ditch

As it is the season to plant aquatic plants, the southern pond has been attended to with 20 different plants being planted, this will increase the biodiversity of the area. The southern pond has been made to be a wetpond, this means it will have a pool of water throughout the year, allowing different species of plants and animals to thrive.

The southern end of the project is being built up to the level of the existing road, this is so the area can be deep soil mixed, churning cement into the ground to improve the strength of the soil. The soil mixing will go right up to the south abutment as the ground material is currently a very soft clay.



*Image 8 Aquatic plant bedding.*



*Image 9 South abutment.*

### Work in the local community

On Wednesday, 20th March, we successfully completed the installation of a new gate for the local church in Poling. This project was initiated after attending the Poling Parish Council meeting, where we recognized the need for a new gate at the entrance of the church. Feedback from residents has been positive, and we are pleased to have contributed this new feature to their community.



Image 10 New gate for a church in Poling

For further information about the scheme please visit the Lyminster Bypass North page on West Sussex County Council's website:

<https://www.westsussex.gov.uk/roads-and-travel/roadworks-and-projects/road-projects/lyminster-bypass-north/>

Should you have any specific scheme enquiries, please contact [lyminsterbypass@jackson-civils.co.uk](mailto:lyminsterbypass@jackson-civils.co.uk)