

Woolley Hill Wind Farm Entrance



With Delivery of the turbines due imminently, we were approached by engineers from Waterman Infrastructure Ltd to provide designs for strengthening the shoulders at the entrance to the wind farm site. As these would n with its need to support the heavy low loader trucks as they entered the site.

The cage like matrix formed by adding RoadCem and cement to soil mixes creates a strong monolithic block of bound soil, with a high modulus of elasticity providing the stiffness needed to support the heavy point loadings imposed by the delivery trucks.

The original design for this difficult temporary road widening of the soft sloping soils, was to dig out and place special constructed steel plates over a deep bed of stone.

The RoadCem solution used existing soil fill material, dug from the turbine foundations. Which was treated with RoadCem and cement and placed in overlapping 250mm layers and compacted to form a strong, stable platform.



The work was carried by the by the wind farm contractors Daagher & Walsh (Civil Engineering) Ltd. Using just the equipment and plant available on site.

Under the supervision of our own PowerCem engineer Geoff Preston.

Completed in just two days to the same height as the existing kerbs. This temporary running platform was left to harden for just a further two before the first of the turbine deliveries arrived.

When deliveries were completed the top 300mm of soil concrete was milled back to soil again and replanted with grass.

