



SANDERSTEAD RD

SUREGROUND™ - REVERSIBLE SOIL ENHANCEMENT SYSTEM



COST SAVING

30%

MAINTENANCE COST SAVING

25%

PROGRAMME REDUCED FROM 6 DAYS TO 3 DAYS

50%

VEHICLE MOVEMENTS REDUCED FROM 200 TO 43

79%

CARBON EMISSIONS REDUCED FROM 93.1T TO 37.9T

59%

IMPORTED AGGREGATE REDUCED FROM 3,600T TO 810T

78%

MATERIAL SENT TO LANDFILL REDUCED BY

100%

STONE LAYER DEPTH REDUCED FROM 500MM TO 150MM

80%



Project:
Sanderstead Road Bridge Replacement, between
Broomhall Road and Purley Road

Location:
Purley, South Croydon

Client:
Network Rail, on behalf of Balfour Beatty

Area Covered:
3,000m²

Solution:
SUREGROUND™ Reversible Soil Enhancement System



Network Rail required the removal of a road bridge in South Croydon on Sanderstead Road. The inner city location meant that works would need to be completed with minimised construction traffic and to a short programme.

The scheme required Soil Science to both install and decommission the ground using the SUREGROUND™ Reversible Soil Enhancement System on behalf of the main contractor Bam Nuttall.

During construction, topsoil was stripped and banded before the proprietary binder was rotated with soils using a Stehr dust free mixer. This was surfaced with SUREGROUND™ Maintenance Free Surface Armouring saving further costs.

The stabilised area was then decommissioned by the introduction of a bespoke reagent, the composition of which was specific for the site soils. This restored pH and nutrients to within their pre-start DEFRA indices.

The area was stripped of stone surfacing and this was recycled. The reagent was then mixed with previously stabilised soils before topsoil was spread and turf was applied.



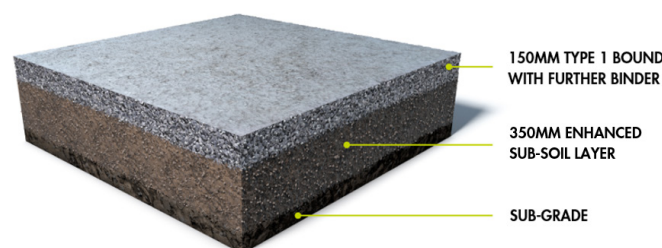
SURFACE STRIPPED



BREAK UP SUBBASE



SOIL MIXING



PLASTIC & MAINTENANCE FREE
SURFACE ARMOURING DESIGN



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