



HAMBLETON

SUREGROUND™ - REVERSIBLE SOIL ENHANCEMENT SYSTEM



COST SAVING

50%

MAINTENANCE COST SAVING

25%

PROGRAMME REDUCED FROM 18 WEEKS TO 5 WEEKS

73%

VEHICLE MOVEMENTS REDUCED FROM 2720 TO 740*

73%

CARBON EMISSIONS REDUCED FROM 1,555.7T TO 467.15T

70%

IMPORTED AGGREGATE REDUCED FROM 48,192T TO 13,753T*

71%

MATERIAL SENT TO LANDFILL REDUCED BY

100%

STONE LAYER DEPTH REDUCED FROM 1200MM TO 150MM

88%

*INCLUSIVE OF STONE FOR LEVELLING



Project:
 REAL Alliance, East Coast Main Line, Power Supply Upgrade - Phase 2

Location:
 Hambleton Junction, Selby

Client:
 Rail Electrification Alliance (REAL) - Consisting of six partners VolkerRail, J Murphy & Sons, Network Rail, Siemens, Jacobs & TSP

Area Covered:
 23,000m²

Solution:
 SUREGROUND™ Reversible Soil Enhancement System



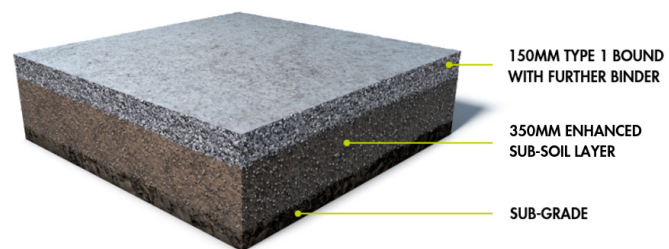
SITE PRE-START



SOIL MIXING



SURFACING



PLASTIC & MAINTENANCE FREE SURFACE ARMOURING DESIGN

Works were undertaken on behalf of the REAL Alliance consisting of the construction of two piling mats, two compounds and a haul road situated within private farmland. The haul route required a temporary Bailey bridge, installed on cill beams and two points of access.

Soil Science installed the SUREGROUND™ Reversible Soil Enhancement System to enable Murphy to undertake their works at the Hambleton scheme. The maintenance free Surface Armouring was used to construct the haul road offering considerable commercial savings to the project, negating the need for any maintenance over the two year programme for the scheme.

The site team encountered very poor ground conditions at site but due to the rigorous pre-start testing, Soil Science were able to formulate a suitable binder and proceed with works.

The compound and haul road surfaces achieved a strength in excess of 100% CBR suitable for both general works traffic and the specific on site plant. Two piling mats were also installed allowing safe operation of the plant for the bridge installation.

