



Scope: Full Depth (280mm) bay replacements in PQ-X concrete.

Details:

GCEL were appointed to carry out 2862m² of full depth concrete repair on both carriageways of the M54 between junction 3 to 5. The scope of work includes the removal of existing dowelled concrete bays and reinstating using PQX (Rapid Strength Gain Concrete) overnight. The concrete bays (4m x 5m x 280mm) were saw cut into smaller section, and lifted out using vacuum lifting device attached to a wheeled excavator. Type 1 formation was inspected and replaced as required, new dowel bars were drilled and installed using EZ 210B SRA drill, reinforcement placed prior to reinstating using PQX concrete mixed on site, using Volumetric mixer. To accelerate curing of concrete, heated blankets were used. Between 3-5no. concrete bays were repaired on regular basis during weekdays between working hours 22:30 to 05:00 (next morning) and up to 24 bays were repaired on weekend shifts. The carriageways were successfully open to normal traffic at 06:00AM every morning during the project duration.

Similar Projects:

M42 (Junction 3A to 4) - Full depth bay replacement.
A419 - Full depth CRCP repairs.
A417 - CRCP repairs.

M54

Junction 3 to 4 (Both Carriageways)

Client:
Costain LTD & AMEY

Completion Date:
March 2015

Supplier:
AJ Wilcock Holeformers
Titan Plant Hire LTD

