



Melton Mowbray Distributor Road



Leicestershire
County Council

GallifordTry

AECOM

TOGETHER
DELIVERING
FOR MELTON

Scheme Overview



Framework

- Midlands Highways Alliance
- Awarded under PSP/MSF3

Team

- Leicestershire County Council
- Aecom
- Galliford Try
- Watermans

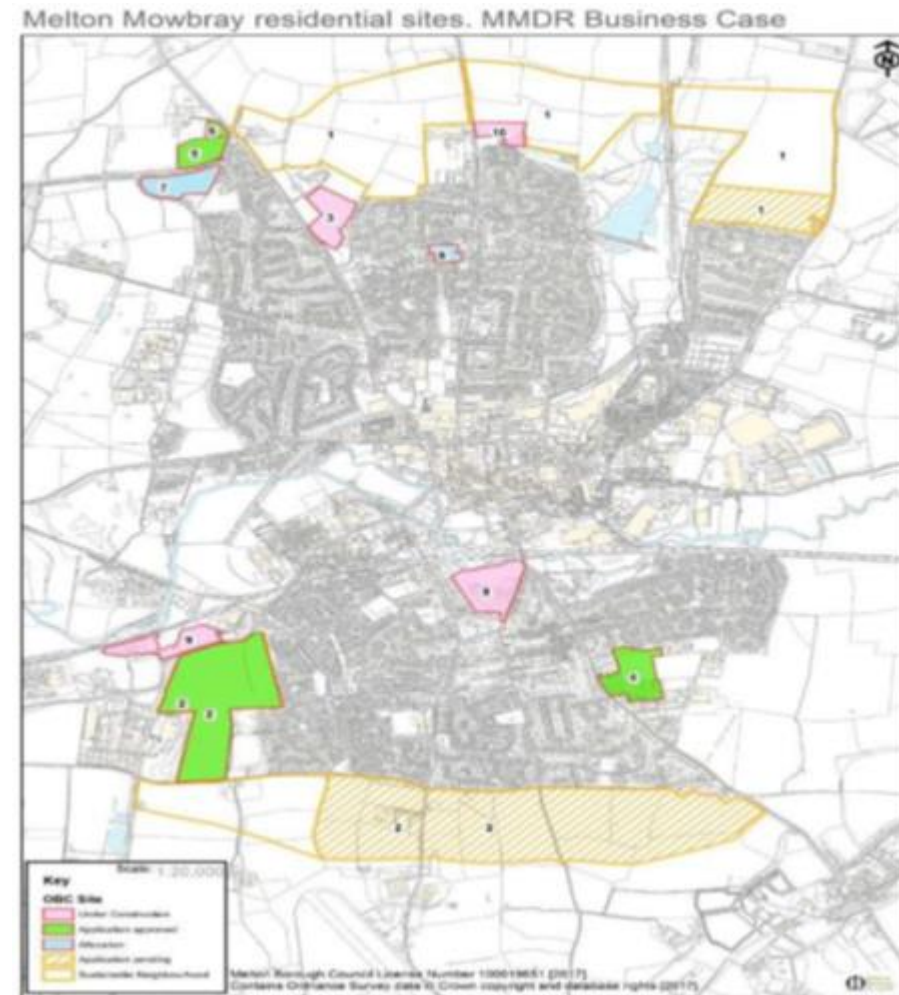
Scheme Details

- Design, Construction, Supervision
- NEC PSC and ECC (complimentary)
- Value: £100M Construction
- Early Contractor Involvement

The Melton journey so far....

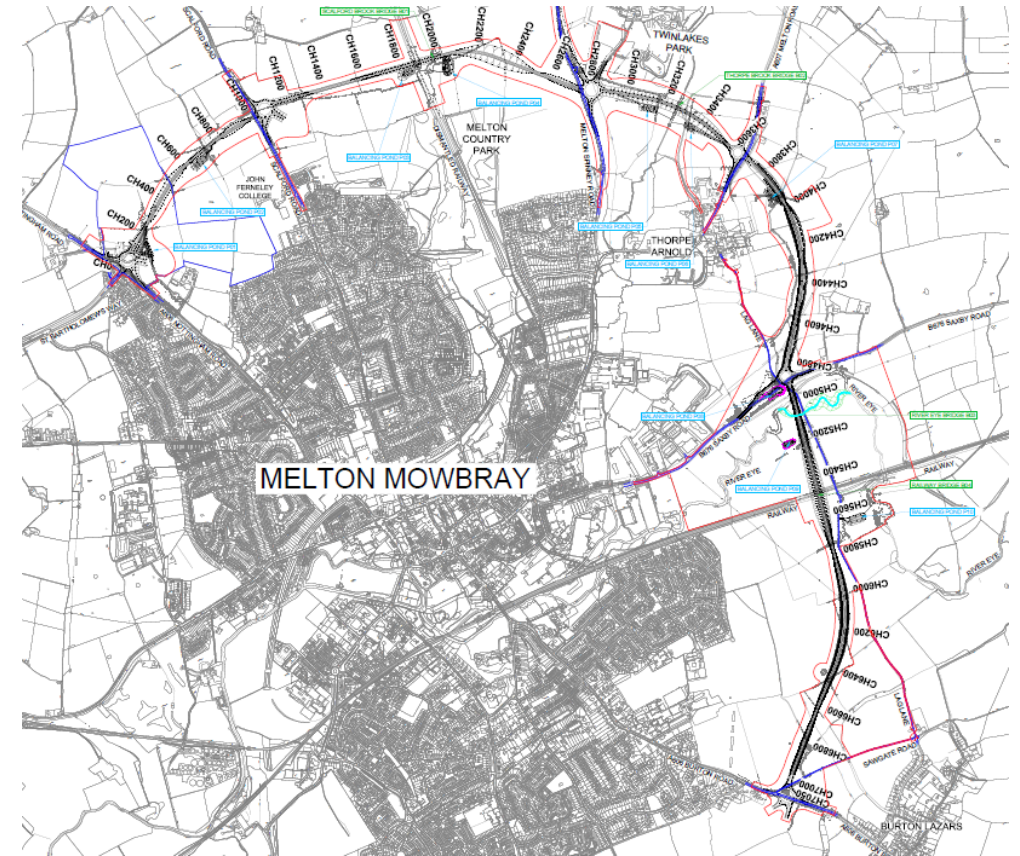
The Journey So Far....

May 2016	Cabinet approval development of MMTS (inc.MMDR)
April 2017	AECOM appointed as designer
Oct 2017	Consultation on Recommended Route
Dec 2017	Outline Business Case Submitted
Oct 2018	Planning Application
Dec 2018	GT Award ECI – mini competition
Oct 2020	GT NEC4 contract signed
Oct 2020	CPO & SRO Served (Land acquisition and highway amendments)
Sep 2021	Public Inquiry
April 2022	Orders Confirmed
Dec 2022	Full Business Case Submitted
Feb/Mar 2023	Funding Confirmed. Advance works start.
May 2023	Main works started



Scope - Location

- 7.5km of new carriageway with 6 roundabouts
- 4No structures: 3 river, 1 rail
- Ground improvements: c22,000 band drains, 227 settlement piles
- Earthworks c430,000m³ cut, and c330,700 m³ fill
- Environment – EA water courses (River Eye) and SSSI.
- Utility diversions: BT, electricity, gas and water.
- Archaeology



Challenges along the way

- Delivering the concept
- Supply chain partners going out of business
- World challenges
- Weather / Flooding
- Archology
- Utilities
- Delivering this scale project in today environment



River Eye Diversion in SSSI

Constraints

- 2 sets of 132kV o/h (HV) powerlines
- River Eye
- Site of Special Scientific Interest (SSSI)
- Brentingby Dam flood storage area
- Birmingham to Peterborough Railway
- Existing B676 Saxby Road



3D Visualisation of area around River Eye Diversion

Stakeholders

- Natural England
- Environment Agency
- Western Power
- Leicestershire County Council Planning Authority
- Residents/Landowners/Farmers
- Canal Restoration Society
- Network Rail

River Eye Diversion

Challenges Overcome Together

- H&S risks (powerline & watercourse) eliminated
- £1.5m powerline diversion saving & programme risk mitigated
- Environment Agency & Natural England – Opponents to Supporters
- Ecological & Environmental Risk turned into betterment – **no precedent**
- Risk of Planning objections from Statutory Consultees eliminated

Work Delivered

- AECOM Geomorphologist and GallifordTry worked closely with EA & NE to deliver to consent requirements
- Unusual and challenging earthworks with areas of standing water, wetland, floodplain undulation, a backwater and new washed gravel
- Fish stunned and relocated with a refuge area during construction
- Contamination/ pollution control
- Geomorphologist '*GT have excelled in their delivery*'... Best I have ever seen



Excellence in
Planning for the
Natural
Environment



Vision to Reality

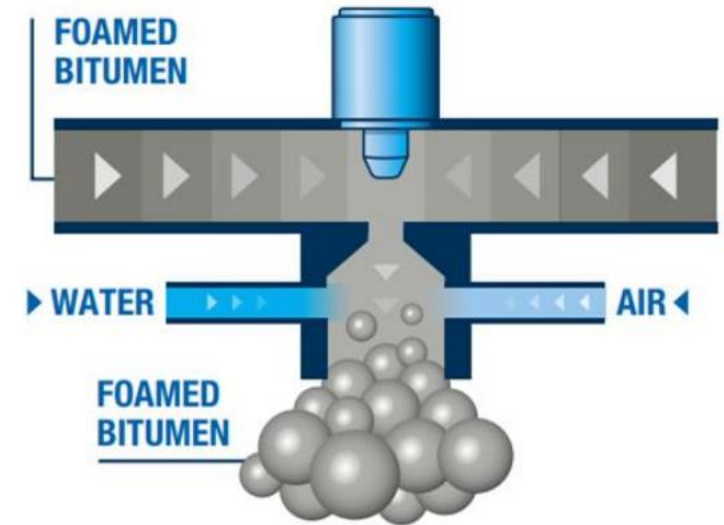
Innovation: Foamix Base Surfacing

What is Foamix

- Cold Recycled Bound material (CRBM)
- Use as a Base/ Binder course layer
- Fully cold process using cold damp aggregates
- Inject cold water and air into hot bitumen at high pressure
- Foamed bitumen increases volume and reduces viscosity in short term
- This enables coating of cold damp aggregate

What We Did

- LCC/ AECOM/ GallifordTry worked together to develop the Specification to deliver carbon and cost savings using recycled pavement arisings from across the County
- Carried out investigations to ensure its suitability and address long term durability concerns
- Developed a material comprising
 - 84% Recycled asphalt planings
 - 7% added filler, 1% Hydraulic Binder (Cement), 3% Bitumen, 5% OMC



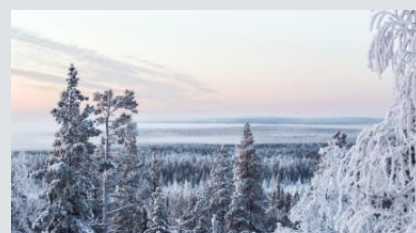
Innovation: Foamix Base Surfacing

Forecast Benefits

- Reuse of 7305 tonnes of coal tar planings avoiding landfill
- Onsite batching saving over 50,000 HGV miles
- Cost savings - £400,000
- 2300t of CO₂ Saving



What does 2300T of Carbon Look Like?



Carbon dioxide absorbed by a tree

2300

Calculate

tons of carbon dioxide can be absorbed by

2,544.2

cubic metres of tree.

Other way around ↺

ton



CO2 emission of a car

2300

Calculate

tons of carbon dioxide is equal to

16,440,314.5

kilometres of driving.

Other way around ↺

ton



The carbon footprint of a flight in Europe

2300

Calculate

tons of carbon dioxide is equal to

3,934.8

passengers' roundtrip flights from Helsinki to Munich.

Other way around ↺

ton



CO2 emission of gasoline

2300

Calculate

tons of carbon dioxide is equal to

1,156,212.5

litres of gasoline consumption.

Other way around ↺

ton



CO2 emission of heating up a sauna

2300

Calculate

tons of carbon dioxide is equal to

207,244.5

times of heating up an electric sauna.

Other way around ↺

ton



Carbon footprint of one litre of milk

2300

Calculate

tons of carbon dioxide is equal to

1,642,857.1

litres of milk production.

Other way around ↺

ton



Carbon footprint of a steak

2300

Calculate

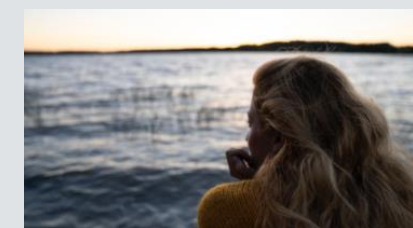
tons of carbon dioxide is equal to

1,050,228.3

of beef stakes (150g) production.

Other way around ↺

ton



Annual CO2 emission of a Finn

2300

Calculate

tons of carbon dioxide is equal to

298.7

of the annual CO2 emissions of a Finn.

Other way around ↺

ton



Soft Spots

Challenges Overcome Together

- Soft ground encountered at Railway Bridge North Abutment
- Initial solution was dig out and replace to a specific level
- GT engaged with Van Elle piling specialists and identified an alternate design solution: 450 diameter, 3.5m deep stone columns at 1.2m centres
- Solution discussed and agreed as a team with LCC and Aecom
- Network Rail approval process fast tracked by NR due to the high quality of the submission

Benefits Delivered

- Mitigated potential 3-month delay
- **Network rail feedback:** MMDR is outstanding in its level of safe working, programme certainty, possession management, protection of the infrastructure and the whole project teams buy in.
- Finalist for NEC Bridge Awards for Collaboration



Hailed by NR as 'HOW TO DO ASPRO WORKS'.

Critical Path Piling

Challenges Overcome Together

- 25 m long piles – needed largest rig in Europe
- Limited Availability: Only one rig available within the UK.
- Extremely challenging weather conditions and extensive flooding during Autumn/Winter 23
- Date was defined on critical path of March 24 - **had to be met**
- Agreed extensive flood control measures with LCC and had continual dialogue with piling supply chain

Benefits Delivered

- Avoided delay and **delivered to programme**
- Changed the method of working by agreement with LCC and Aecom which enabled the removal of the casings - significant project savings achieved



Innovation: Vita Load Navigator

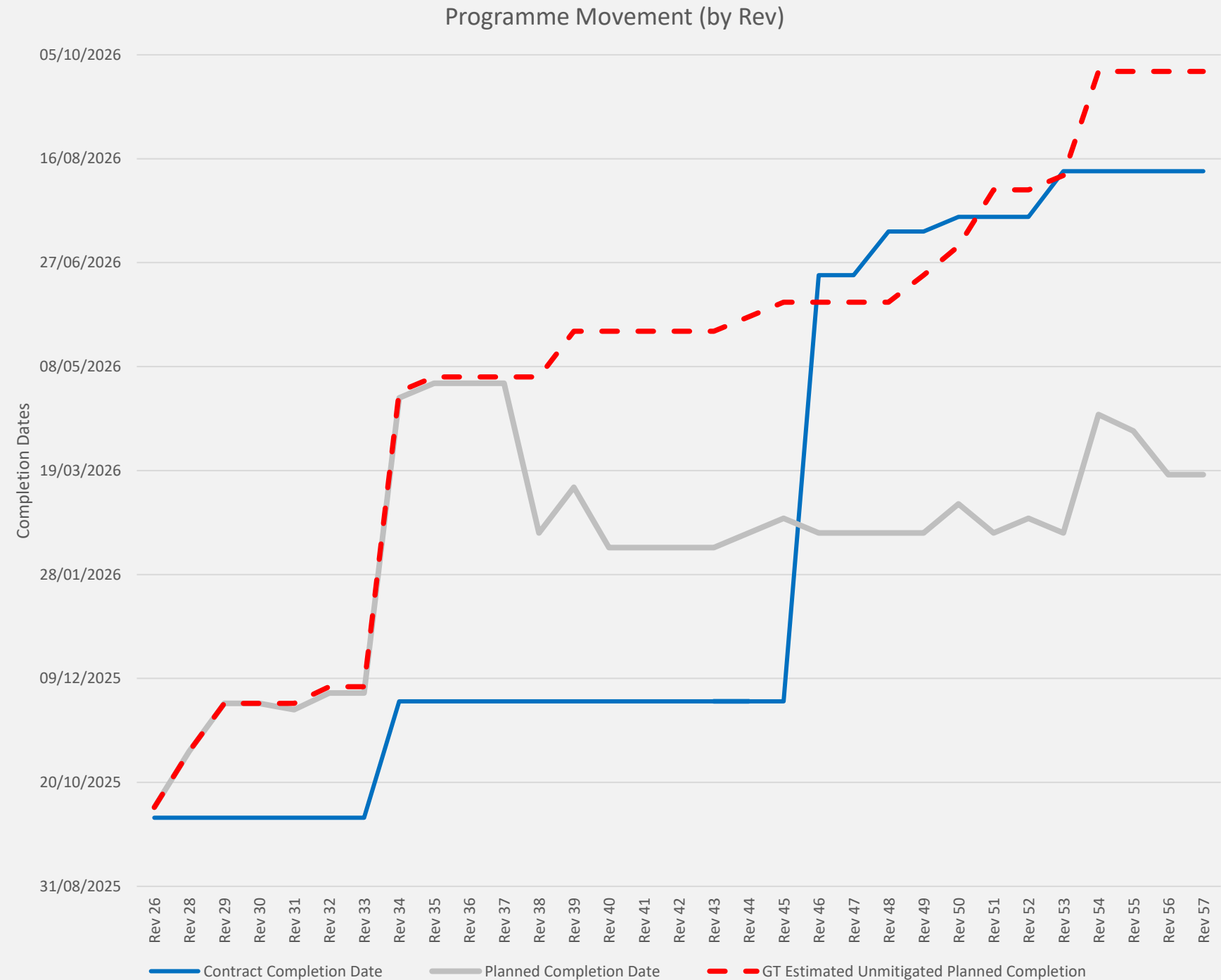
- Award winning, dynamic approach to lifting loads with precision.
- Semi-autonomous propulsion-driven
- Detects load movement in real-time and adjusts with high-powered fans
- 'Hands Off' Safety approach: Eliminates spinning/rotations



Winner of MHA Annual Event Award
Best Use of Technology

Mitigating Delays

- Contractors Proposals have helped mitigate Archaeology Weather & Stats delays - by 154 Days
- Overall impact to Planned Completion is 24 weeks.
- Planned completion 17th March 2026



Social value

£48.2m

Local spend



£25,000

Raised for
local charities



80%

Local
workforce
employed



£35.9m

Added
Social Value

7



New Jobs
created locally
for previously
unemployed
people



48/50



Considerate Constructors Scheme score

Education and local community support

669hrs voluntary time supporting
local community projects including
schools and charities.



50 students directly engaged with
construction related interest including
group site visits and classroom-based
training sessions

£24,600

Donated in time and materials to local
school & community projects



Environmental benefit

1843 tonnes
of waste diverted
from landfill

98%
recycle
rate



3741 tonnes of
waste from local
area reused on site

2300 tonnes
of CO2e
emissions
savings



2 artificial badger sets
created

20 bat and bird boxes
installed across the
project



Employment and skills



13 work placements
including ex
military, SEND &
mainstream
students

10



Apprentices



345 weeks APPRENTICESHIP training
and student placement

Will's Story....

Local SEND Student: Now employed by GT following a work placement. We have also arranged a job for him with a local contractor for after we have completed the scheme. Leaving a SV Legacy.....

Sam (Will's mother) commented:

"I can't thank you enough for arranging Will's work experience. He has been a totally different person and it's like I've had the "old Will" back and I can't express how great that has been.

He has been buzzing at the end of each day and couldn't wait to tell me all about it, then up early the next day so keen to get going again!

Can you please pass on a huge thank you to everyone. We appreciate it so much."

"Every single person I've met has been so friendly to me. Ben and Alistair have been absolutely amazing..... really looked after me and taught me loads....."



MMDR Scheme Key Achievements

AFR &
Lost Time
Injuries

Zero

Considerate
Constructors

Score 1: 48/50
Score 2: 47/50
Score 3: 48/50

Gold
National Awards
2024 & 2025



NEC Bridge Awards 2025

Finalist

Cost
Savings
During ECI

£5.5m

Cost
Savings
During Construction

£6.6m

Programme
Savings
During Construction:
mitigated change

**154
Days**

An aerial photograph of a road construction site. A wide, light-colored dirt road runs diagonally from the bottom left towards the top right. To the left of this road, there's a construction area with some structures and equipment. The surrounding landscape is green and hilly. The text 'AOB' is overlaid in large white letters in the center of the image.

AOB

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