B3224 Roundwaters' Steel Sheet Piled (SSP) Retaining Wall Embankment Stabilisation Scheme.

29<sup>th</sup> November 2023<sub>Rev6</sub>



## Welcome

Welcome, on behalf of Somerset Council, to this presentation for the "B3224 Roundwaters' Steel Sheet Piled (SSP) Retaining Wall Embankment Stabilisation" scheme.

I know you all would like to join me in expressing our thanks to colleagues from SC, WSP and Walters for joining us this evening.

May I ask you all to reserve questions until the "Time for Questions" section at the end of this evening's presentation.

Thank you.

# **Evening's Format**

- Introductions
- Background (Led by SC)
- Myths and Misconceptions (Led by SC)
- Actions Being Progressed (Led by SC)
- The Journey So Far (Led by SC)
- The Design (Led by WSP)
- The Construction (Led by Walters Group)
- Time For Questions (Questions from the floor)
- Finish 9:00pm

#### **Somerset Council**

- Paul Tucker Bridges and Structures' Service Manager
- Paul Nation Bridges and Structures' Team Leader and Senior Bridge Engineer (Lead Scheme Officer)
- Ross Matthews Bridges and Structures' Team Leader and Senior Bridge Engineer (Lead Site Officer)

#### **Somerset Council**

- Luke Green Principal Street Works Officer
- Sam Murrell Specialist Town & Parish Liaison Officer

#### **WSP's Design Team (Consultant)**

- Rob Benson Geotech/Structures Design Lead
- Chris Uzzell Highways/Drainage Design Lead

#### Walters Group's Construction Team (Contractor)

- Jim Webb Regional Director
- Richard Scammell Contracts Manager
- > **Dan Harrison** Project Manager
- > Joe Sullivan Site Agent

# Background

- During the autumn of 2021 the embankment supporting the B3224, between Exford and Wheddon Cross at Roundwaters, collapsed.
- This occurred following storm and rainfall events that caused a large tree to fall and a significant portion of the embankment and carriageway to fail.
- A single lane closure was subsequently installed to prevent highway users running close to the exposed and unstable carriageway edge and the steep drop beyond.



# Background

- Traffic management is still in place.
- WSP (the Council's Consultant) was engaged in May 2022 to undertake a feasibility study and a steel sheet piled (SSP) retaining wall stabilisation has been designed.



- The design includes road drainage improvements, culvert repairs, new outfalls to Larcombe Brook, Vehicle Restraint System and carriageway resurfacing.
- This solution was presented to the LCN on 19<sup>th</sup> May 2023 and circulated to the affected landowner.

## **Myths and Misconceptions**

There have been some "soundbites" in circulation.

- This is a Capital scheme. The reports about the Council's financial situation are in respect of Revenue funding and funded schemes. The funding for this scheme is secured.
- Traffic Management has been on site since October 2021, just over two years. A long time but not the three years quoted recently.
- Safety is paramount squeezing traffic through the construction site is not safe and will be unfeasible (more on that later).

## **Myths and Misconceptions**

- Weekend working.
- Night working.
- Why not keep the temporary Traffic Lights in place permanently?

## **Actions Being Progressed**

- Openreach Cable Realignment Works this will take place on week commencing 2<sup>nd</sup> January 2024 in advance of the main works.
- Ordinary Water Course Consent EA consultation ongoing.
- Diversion Route and Rat Running Special signage and consideration to both Oldrey Lane and Thorne Lane being undertaken (More on diversion routes later).

# The Journey So Far

Some of the activities that have been undertaken up to this point are, in no particular order:

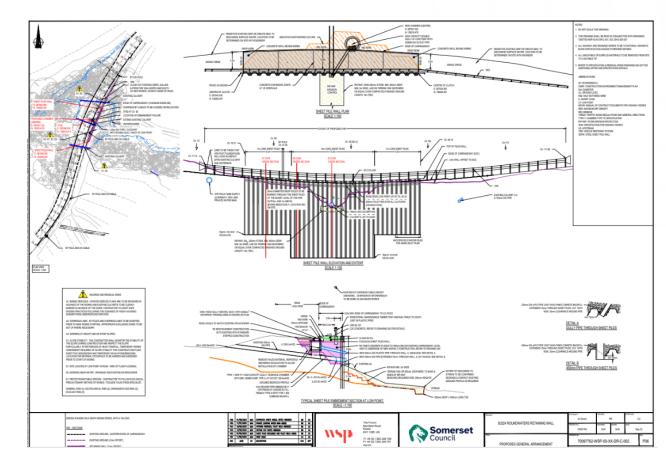
- ✓ Approval in Principle (AIP)
- ✓ Arboricultural Survey and Report
- ✓ Contractor Engagement
- ✓ Design
- ✓ Environmental and Ecological Advance Site Activities
- ✓ Existing Openreach Poles Moved
- ✓ Feasibility and Options Study

## The Journey So Far

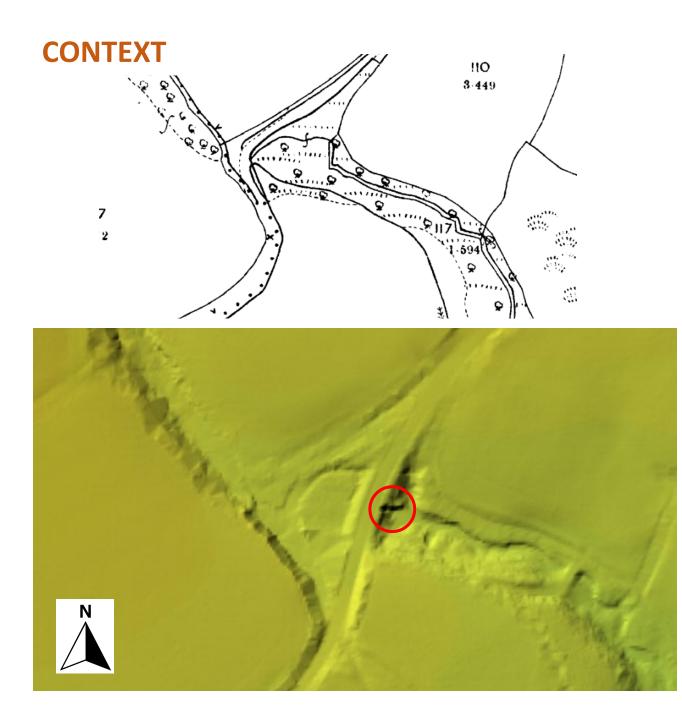
- ✓ Ground Investigation and Report
- ✓ Liaison and Updates with Local Community Network (LCN), Councillors, etc
- ✓ Provisional Advance Authorisation (PAA) for Road Space
- ✓ Preliminary Ecology Appraisal (PEA)
- ✓ Stage 1/2 (Feasibility/Detail Design) Safety Audit
- Tender Documents Preparation Including Drawings, Pre-Construction Information, Bill of Quantities, etc.
- ✓ Tendering, Tender Evaluation and Tender Award

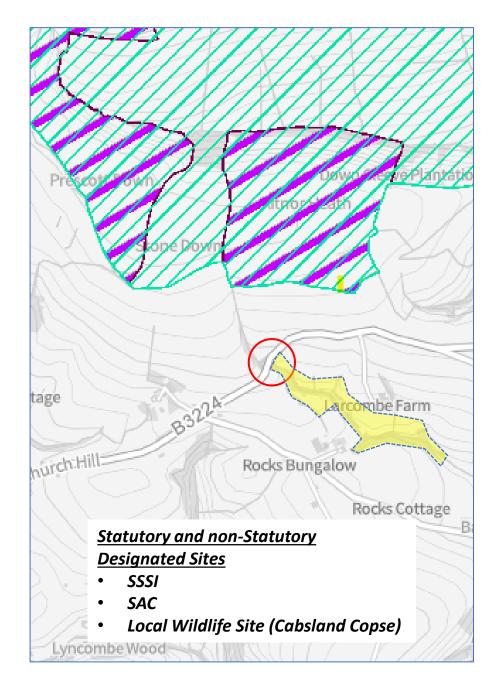
## The Journey So Far

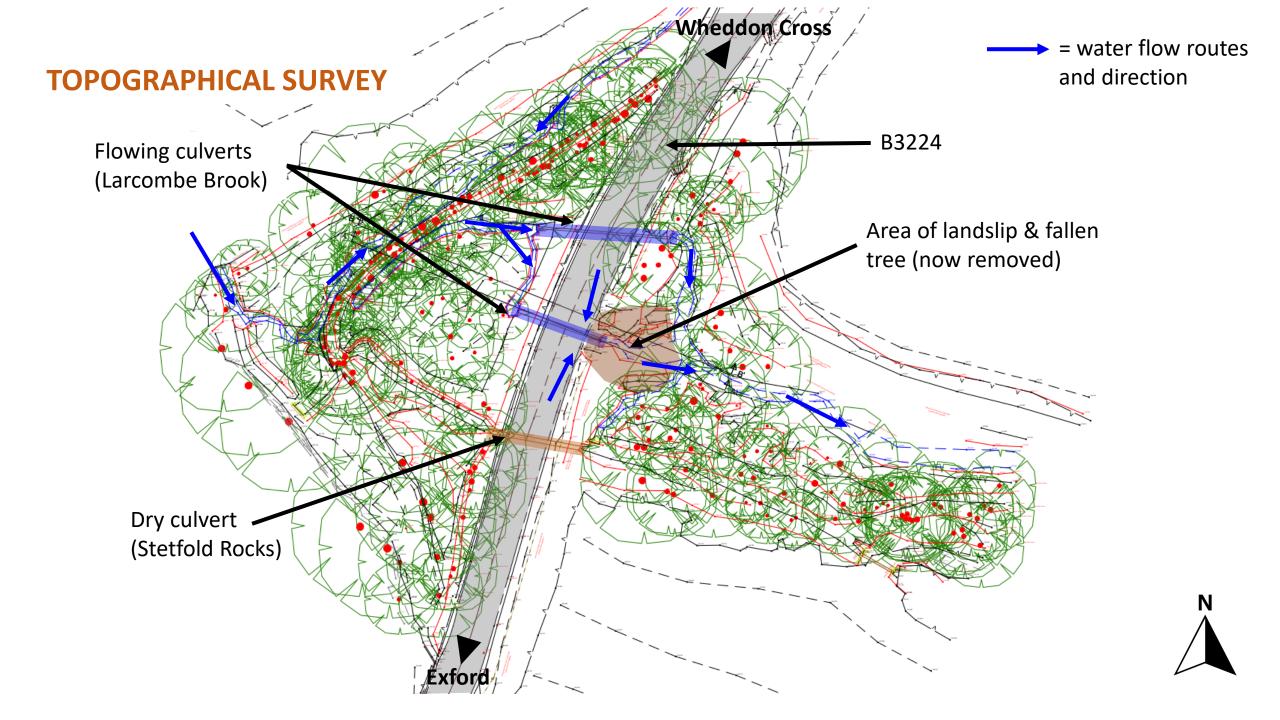
• Public Meeting here tonight to present THE scheme.



# The Designer WSP

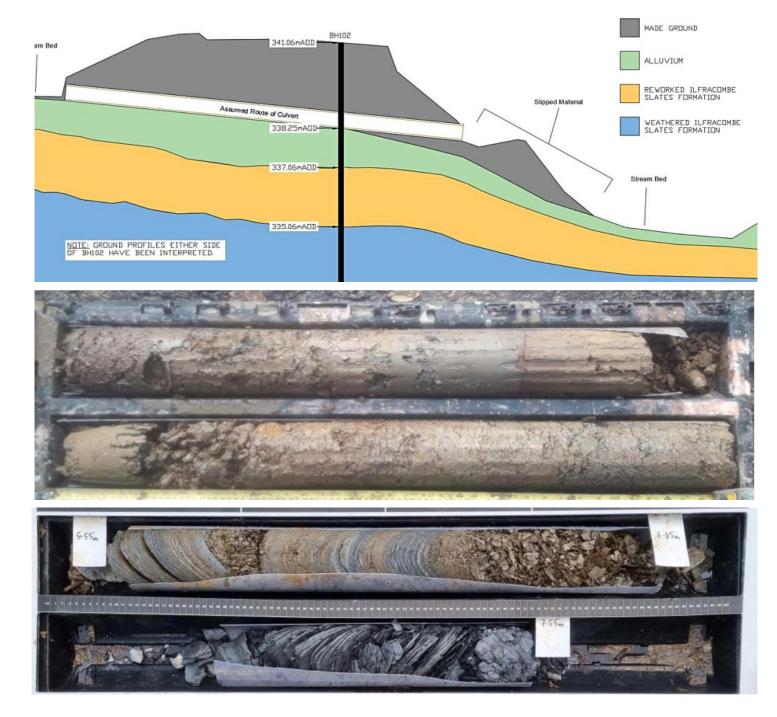






#### **GROUND INVESTIGATION**





#### **ECOLOGY SURVEYS & SUPERVISION**

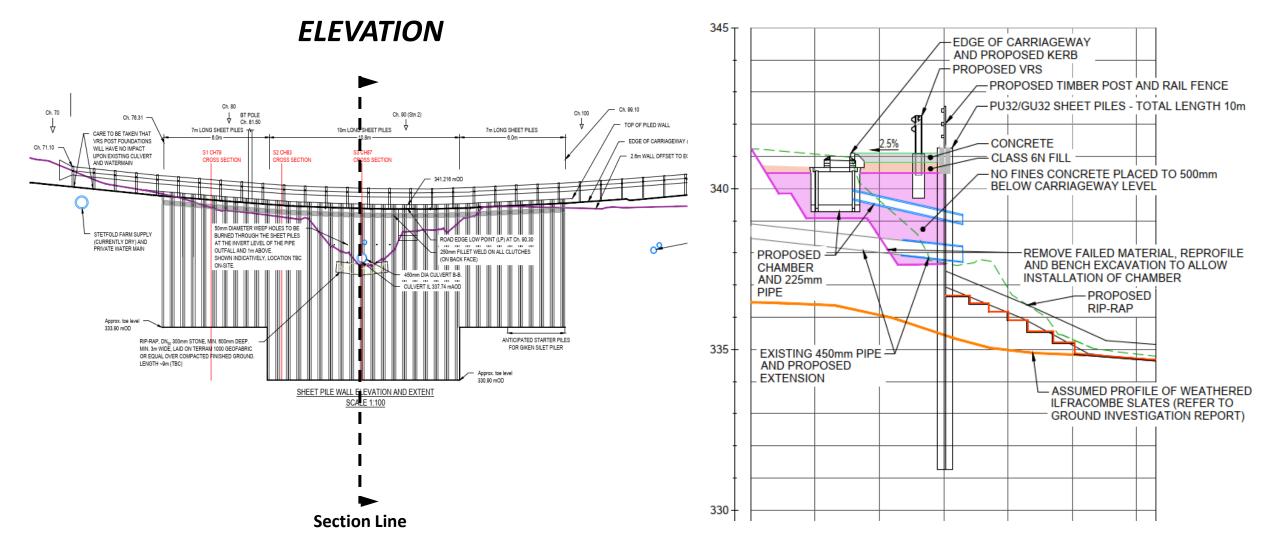


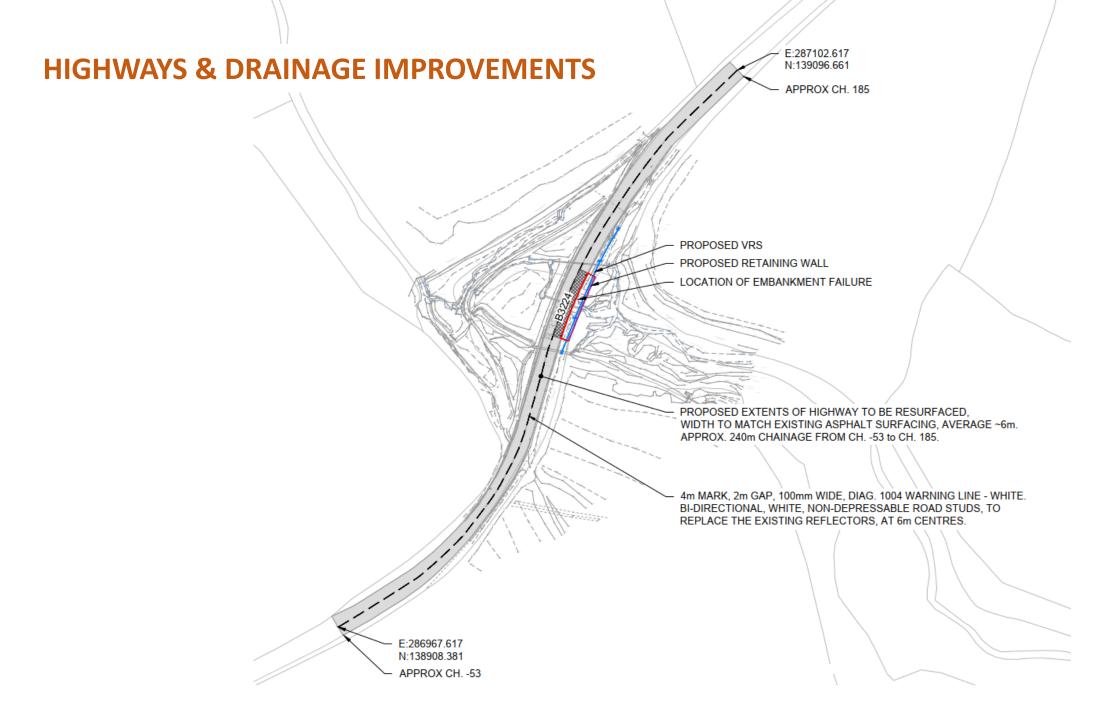




#### **SOLUTION – SHEET PILED RETAINING WALL**

#### **CROSS SECTION**





## **The Contractor Walters Group**

#### Who are we





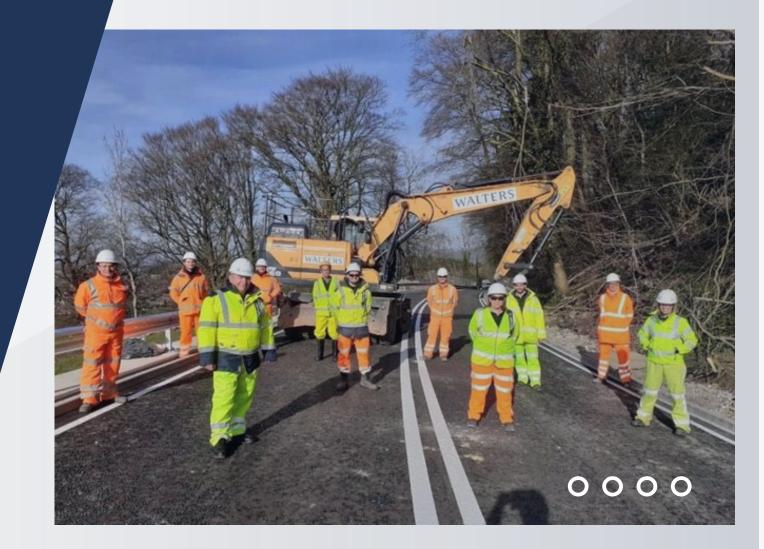




Jim Webb Regional Director Richard Scammell Contracts Manager Dan Harrison Project Manager Joe Sullivan Site Agent

## AGENDA

- 1. Introduction to Walters
- 2. Previous Similar Experience
- 3. Roundwaters Project
- 4. Scope of Works
- 5. Specialist works/equipment
- 6. Rd closure/diversion route
- 7. Environmental Factors
- 8. Supply chain





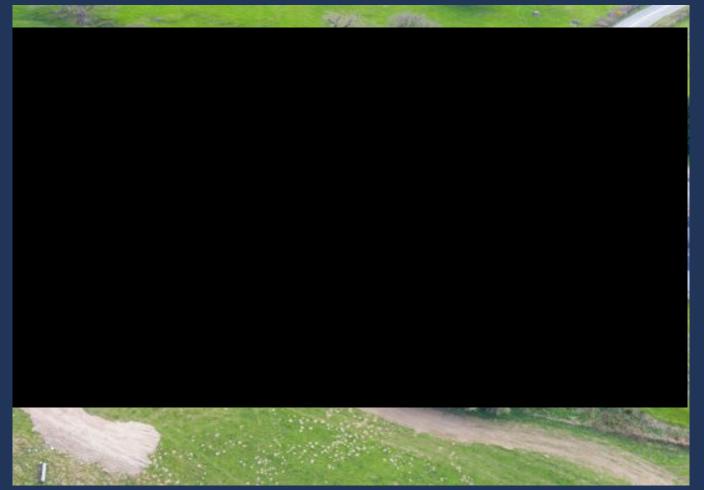


### INTRODUCTION

- Founded in 1982 40 years in business
- Group turnover £150M
- South-west Head Quarters in Avonmouth
- Strong working relationship with Somerset Council
- Almost 3 years on Somerset
- structures framework
- Directly employed, local workforce

#### **RECENT SIMILAR WORKS**

#### A46 Coopers Hill Southern Corner



- Gloucestershire CC
- Full closure of A46
- Bored pile retaining wall

solution

- Carriageway reconstruction
- Completed and road re-

opened on time

#### Northbound



#### Southbound

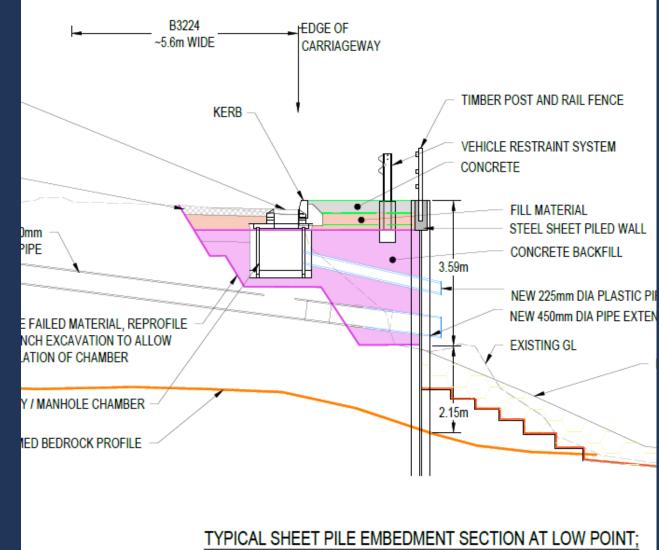


### ROUNDWATERS

#### **Project Information**

- Landslip remediation
- Enabling works completed in
  - Autumn 2023
- Sheet piled solution
- Carriageway reconstruction
- Start on site: 2<sup>nd</sup> January 2024
- Completion: 10<sup>th</sup> May 2024
- Duration: 19 weeks

Activity	Jan-24					Feb-24				Mar-24			Apr-24			May-24			
ESTABLISH ROAD CLOSURE AND DIVERSION ROUTE	02/01/2024																		
BT OPENREACH UNDERTAKE OVERHEAD CABLE DIVERSION																			
WALTERS' SITE MOBILISATION, INCLUDING WATERCOURSE MANAGEMENT																			
EARTHWORKS PRE-PILING (RECOVER SLIPPED MATERIAL, INSTALL EROSION CONTROL, CIVILISE EMBANKMENT)																			
STEEL SHEET PILING INSTALLATION (INCLUDING INSTALL TEMPORARY WORKING PLATFORMS)																			
CIVILS WORKS (CULVERT EXTENSION, NEW DRAINAGE GULLY, BACKFILL, CONCRETE FOOTWAY, KERBS, TIMBER FENCE)																			
VEHICLE RESTRAINT SYSTEM INSTALLATION																			
RE-SURFACING AND ROAD MARKINGS																			
SITE DE-MOBILISATION																			
REMOVE ROAD CLOSURE AND DIVERSION ROUTE													10/05/2024						

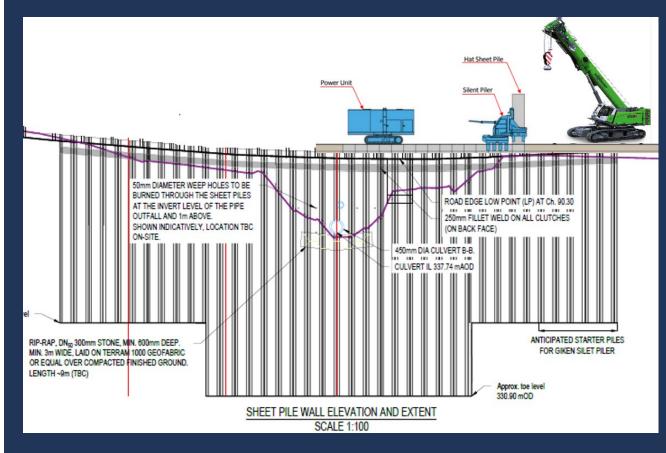


#### Scope of Works:

- Mobilise to site
- Establish diversion route
- Watercourse management &
- environmental controls
- Recover slip material and

#### remove

- Install sheet piled solution
- Reconstruct carriageway
- Install VRS system



Specialist sheet piling works:

- Giken Supercrush
- Very efficient installation method
- Low noise
- Low vibration
- Environmentally friendly
- Cost effective solution

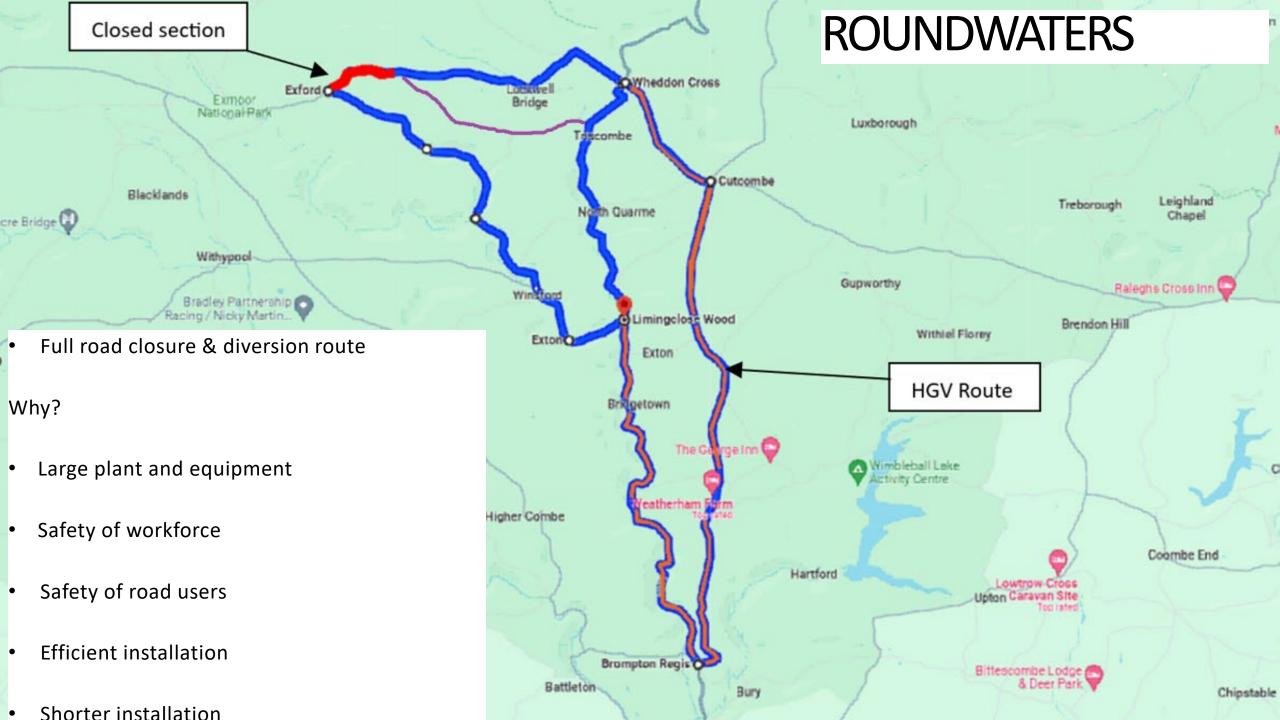


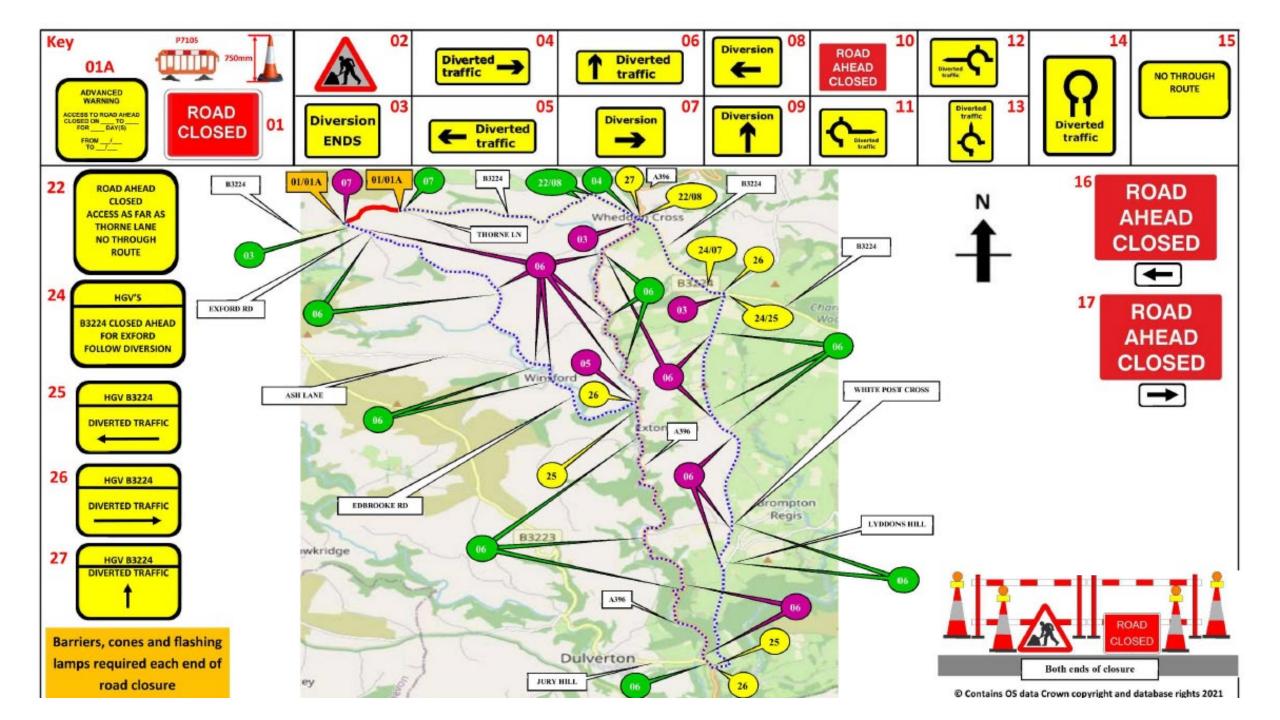
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# GIKEN SUPERCRUSH SILENT PILING

Management for some part Transformer Woorker, Composite the Longs









#### Environmental factors:

- Planned and executed to avoid negative impact
- Watercourse management
- Endangered species
- Low noise solution
- Low vibration solution
- Keep surrounding road network clean
- Recycling of soils and granular arisings









Supply chain:

- Directly employed, local labour
- Locally sourced supply chain
- Use of recycled arisings from project
- Utilising local accommodation and business
- Supported by 4 specialist sub- contractors:
  - Traffic management
  - Sheet piling
  - Vehicle Restraint System
  - Road Surfacing







0117 9827400



www.walters-group.co.uk

We look forward to working for you

## **Time for Questions**

If there are any questions that have not been answered this evening for:-



Technical queries email

#### BRIDGES@SOMERSET.GOV.UK

Press and media queries email

PRESSOFFICE@SOMERSET.GOV.UK

Bridges@somerset.gov.uk

# Thank you for your time. Good night and safe journey home.



Bridges@somerset.gov.uk