

Kincardine Bridge Southern Piled Viaduct Replacement



Excellence
Collaboration
Innovation
Integrity

Our Company



Formed in 2000 by market leading highway maintenance, design and construction organisations.

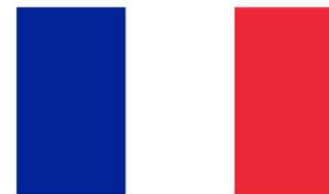
JACOBS[®]




BREEDON



 **EUROVIA**
VINCI 



Excellence

Collaboration

Innovation

Integrity

experience that delivers

Our Contracts

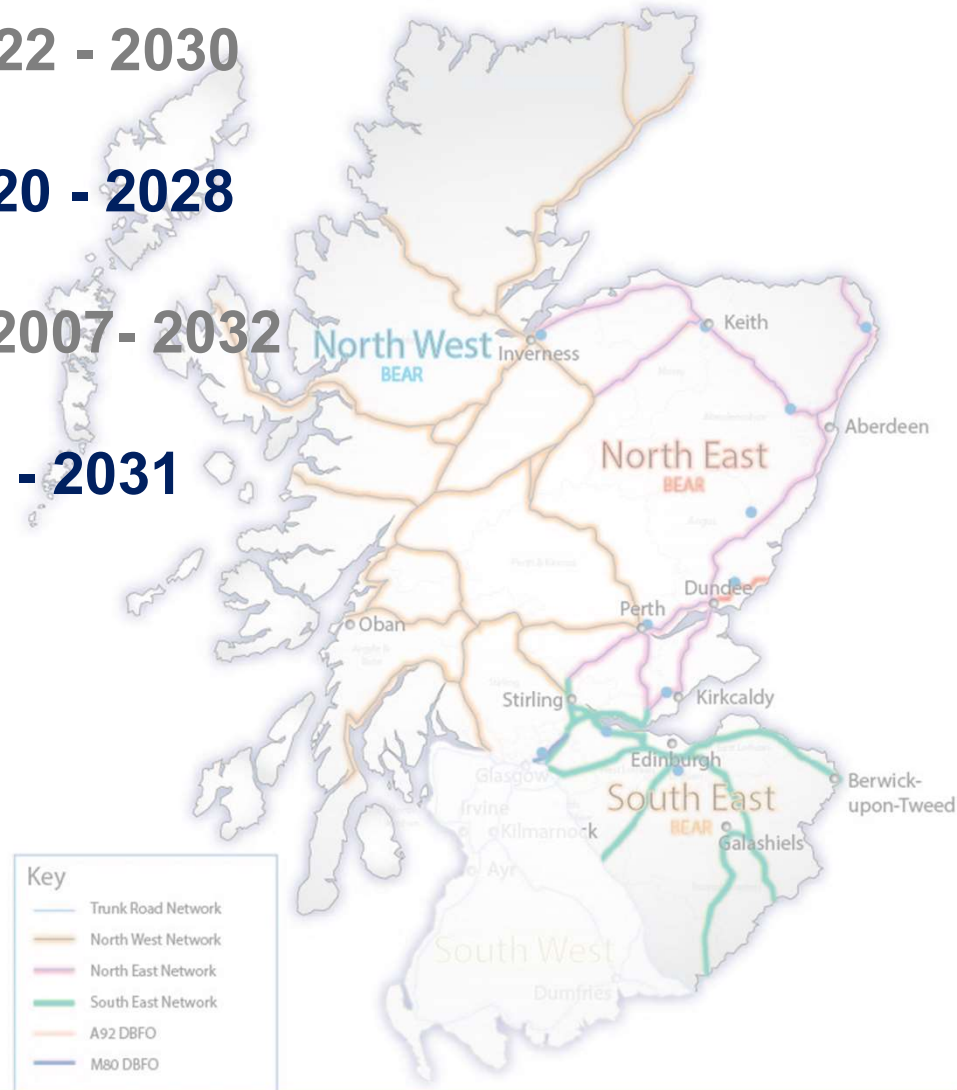


NMC North West Unit 2022 - 2030

NMC South East Unit 2020 - 2028

A92 Dundee – Arbroath 2007 - 2032

M80 Stepp – Haggs 2011 - 2031

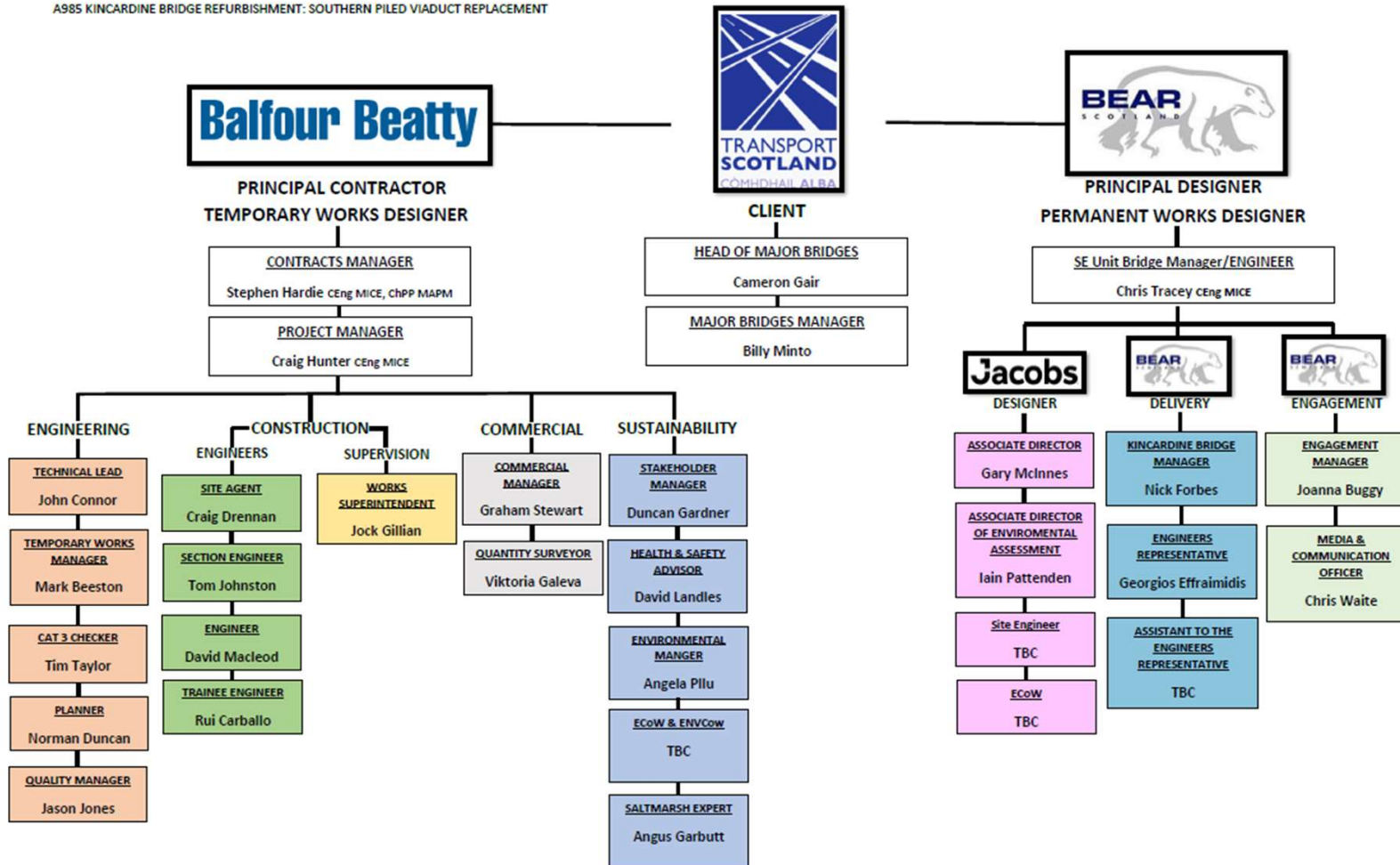


- Perth
- Inverness
- Edinburgh
- Killin
- Lochgelly
- Fort William
- Oban
- Ardelve
- Dundee
- Chryston
- Kintore
- Dunbeath
- Ballinluig
- Inveraray
- Kingussie
- Stirlinghill
- Keith
- Queensferry
- Bonnyrigg
- Charlesfield
- Rosyth
- Burghmuir

Contract Arrangements



A985 KINCARDINE BRIDGE REFURBISHMENT: SOUTHERN PILED VIADUCT REPLACEMENT



BEAR Scotland and Balfour Beatty are contracted separately by Transport Scotland.

BEAR manage the project on behalf of TS.

Balfour Beatty is principal contractor and will construct the works.

Why This Work Is Necessary

- Kincardine Bridge South approach opened 1936
- Comprises 24-span piled viaduct, 76.2m in length followed by nine 15.2m concrete spans and seven 30.5m steel spans.
- This project will demolish the 76.2m Southern Piled Viaduct (SPV)
- Replace with new five-span structure of similar appearance to the adjacent existing structure
- Temporary bridge constructed to west of existing structure
- Traffic diverted onto the temporary structure to minimise disruption during demolition and construction



Why This Work Is Necessary



- Approach piled viaduct in poor condition
- Assessed as substandard
- Temporary propping since 1992,
- Originally planned for five years, itself is now in need of major refurbishment.
- If left weight restrictions and lane closures will need to be applied
- Ultimately a full bridge closure



Kincardine Bridge SPV Replacement

Public Meeting

Date 29/03/23



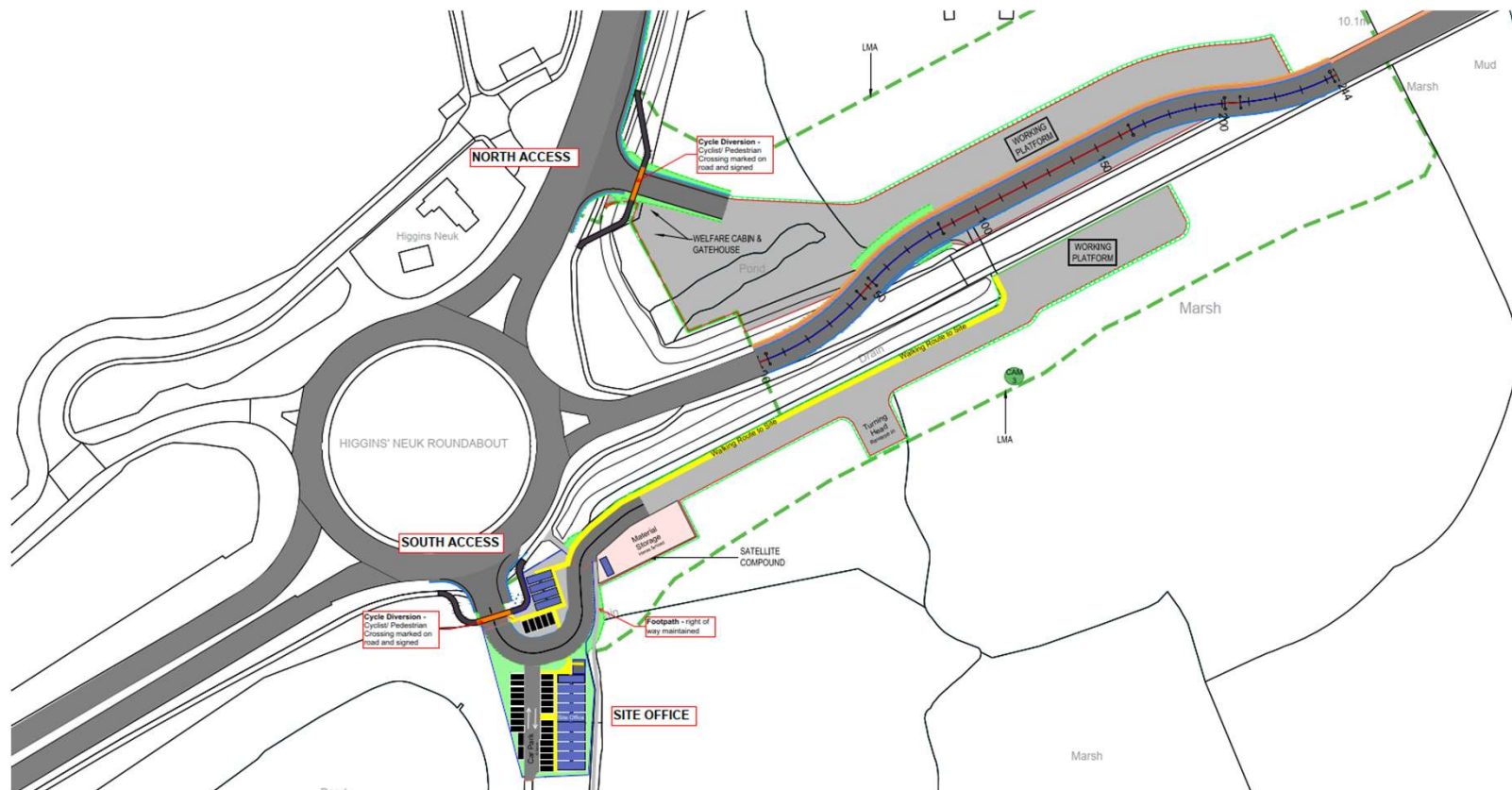
Site Team

Project Manager	Craig Hunter
Site Agent	Craig Drennan
Social Impact Manager	Duncan Gardner
Ecological Clerk of Works	Stewart Parsons

Project Overview

Existing Structure	Cat A Listed bridge opened in 1936. Southern Piled Viaduct Spans 1 to 5 have been temporarily propped since the 90s and this is now life expired.
Replacement Structure	5-Span (80m) Reinforced Concrete bridge replicating the adjacent existing spans. Existing Parapets and Lighting Columns removed, restored and re-erected.
Temporary Structure	Balfour Beatty designed temporary bridge maintaining vehicular and pedestrian passage across Kincardine Bridge.
Temporary Working Platform	Balfour Beatty designed, to be removed entirely upon completion.

Site Access



North Platform Construction –
May to June 2023



South Platform Construction –
June to August 2023



Temporary Bridge Foundation Construction –
Quarter 3 2023



Temporary Bridge Deck Construction –
Quarter 3 to Quarter 4 2023



Temporary Bridge Tie-in Construction –
Quarter 4 2023



Traffic on temporary bridge—
Quarter 4 2023 to Quarter 4 2024



Removal of existing parapet and lighting columns
Quarter 4 2023



Demolition of existing bridge -
Quarter 4 2023 to Quarter 1 2024



Demolition of existing bridge -
Quarter 4 2023 to Quarter 1 2024



Piling for new bridge foundations-
Quarter 1 2024



Foundations complete -
Quarter 2 2024



Deck Construction Starts -
Quarter 2 2024



Deck Construction Complete
-
Quarter 3 2024



Deck Construction Complete
-
Quarter 3 2024



Kincardine Bridge reopens -
Quarter 4 2024



Traffic Management

Works have been planned to minimise disruption to road users. Traffic management will only be implemented where required to ensure the safety of the public and site workers.

May 15 th for 3 weeks	A876 Southbound across Clackmannanshire Bridge, off-peak slow lane closure with a 30mph speed limit
October 2023	Night-time lane closures across Kincardine Bridge. Temporary signals in operation
November 2023	Weekend closure of Kincardine Bridge
	West Footpath – pedestrian and cyclist access maintained throughout

On completion of the new bridge, the Traffic Management will be the same but carried out in the reverse order.

Ecology

- Environmental Impact Assessment and Habitats Regulations Assessment completed as part of planning stage which outlines the key environmental and ecological mitigation which is required for the project. This includes
 - Appointment of Qualified and Experienced Ecological Clerk of Works (ECoW) who will visit site to ensure mitigation measures are implemented and effective and provide any advice/ecological surveys needed as part of the works.
 - Additional ECoW appointed to act on behalf of Transport Scotland to review working methods and complete bird surveys on the salt marsh during the works.
 - Water management plan in place to ensure all dewatering activities and site runoff is treated before being discharged from site.
 - 2m high fencing will be erected from September to March inclusive to provide screening between the works and the overwintering birds.
 - Saltmarsh management plan prepared to ensure the affected saltmarsh is fully restored upon completion of works. We have appointed the Centre for Ecology and Hydrology to do these works and monitoring due to their expertise in this area.

Duncan Gardner – Social Impact Manager

Balfour Beatty Regional Scotland: 2022 Social Impact Report

108
days spent
volunteering in our
local communities





70
new jobs created on
our sites



we spent
£67.2m
with Scottish SMEs







101 apprentices working
across our projects



£18,570
cash and BIK donations to good causes



436
days of work placements



27
graduates
employed




We worked with
3259
school, college and
university students





45.1
average Considerate
Constructors score

A9 Dualling: Luncarty to Pass of Birnam
CECA Scotland Project Award

Some of our planned benefits for the project

- ✓ Job opportunities
- ✓ Work placements
- ✓ School engagement for careers and STEM
- ✓ Support for local community garden, growing and refilling station, food bank and forest school
- ✓ Guided ecology walks
- ✓ Donation of litter picking equipment and volunteer days
- ✓ And more!

Balfour Beatty

Thank You

