

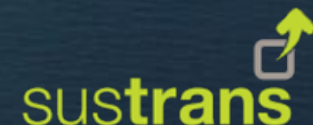
ARBROATH: A Place for Everyone



waterman aspen

ARCADIS

Balfour Beatty





Graeme McLean – Project Manger

Murray Scott – Designer

Paul Downie – Active Travel Officer



Paul Downie – Project Background



Murray Scott – Engagement & Design



Graeme McLean – Construction Methodology



Paul Downie – Activation and Legacy

Project Development

Oct: 1973

The new dual carriageway internal relief road opens



Final Designs & Pre Construction

May: 2023

Further Engagement Activity

Significant Engagement Activity



Initial Technical Designs

Proof of Concept Street Trial Mar: 2021

Community Links Plus Competition Winner

Oct: 2015

Mar: 1979

Road de-trunked

A&DS Place Challenge

- Reconnect the Abbey to the Sea via the High Street
- Reclaim the A92 as a Gateway/Boulevard
- Connect Strategic Land to the Town and Waterfront
- Manage the Town Centre as a group of linked character areas

Placemaking & Developing the Visitor Economy

Jun: 2018

Community Links Plus Competition Entry

Selected as 1 of 10 projects to progress to Stage 2. £50k design award

Jun: 2019

Community Links Award Design £50k

May: 2017

- Train Station to High Street
- Signal Tower Museum to High Street

Apr: 2017

- Connections and Destinations
- Place Making
- Developing the Visitor Economy
- Sustainable Economic Investment
- Health & Wellbeing



Accessibility Study & Active Travel Audit

Feb: 2016

Town Centre Charrette



Angus Council
Comhairle Aonghais



Establish an exemplary walking and cycling route, accessible to all, connecting destinations throughout Arbroath, improving accessibility in the town by restoring those areas and facilities disconnected by the current road, and creating a seafront people want to use.

Competition Feedback

Transformational Project

The first out with a Scottish City

Project Stages

2017-18 A92 Corridor - feasibility study
100% funded by Sustrans (£50K under
Community Links Programme)
undertaken by AECOM

2018-19 Active Travel Active Town -
project development and
competitive bid for match funding
under Community Links Plus
programme for major projects. 100%
funded by Sustrans (£50K) undertaken
by AECOM.

2020 Arbroath Places for Everyone -
final design and construction

WHY? It's not about the road

- Tourism benefits
- Job creation (directly and indirectly)
- Improves accessibility (jobs and retail)
- Leverages further additional funding from Scottish Government

- Helps reduce child poverty
- Levels up opportunities for all
- Encourages more exercise for mental and physical wellbeing benefits
- Poverty (indirectly through access to transport)

- Encourages and facilitates alternatives to car travel
- Helps us achieve our carbon targets
- Future proofs our biggest town
- Unites the town, extends the High Street
- Supports local living
- Paves the way for other Angus towns and villages



Murray Scott – Engagement & Design

Engagement
And Design



Engagement
And Design

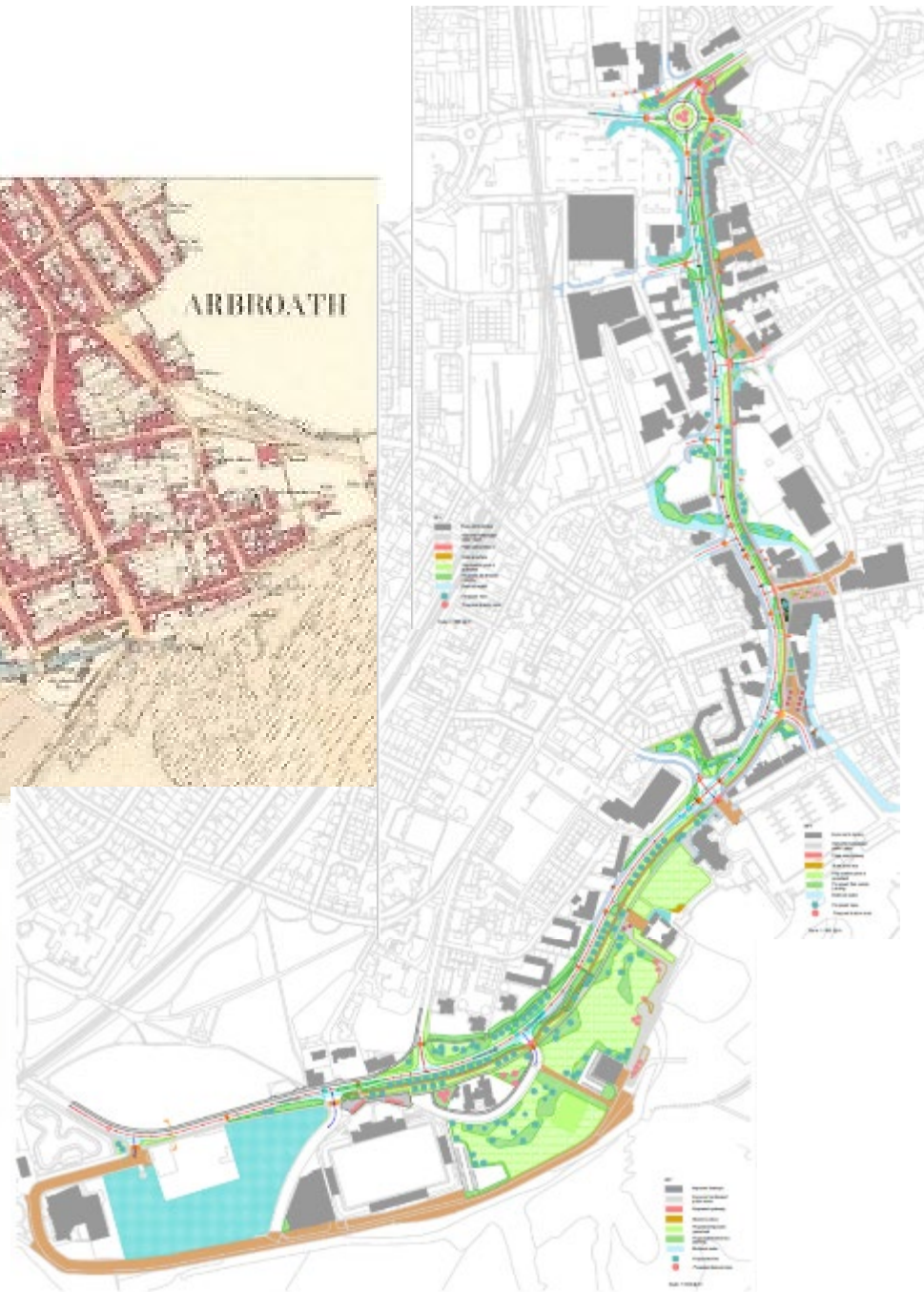
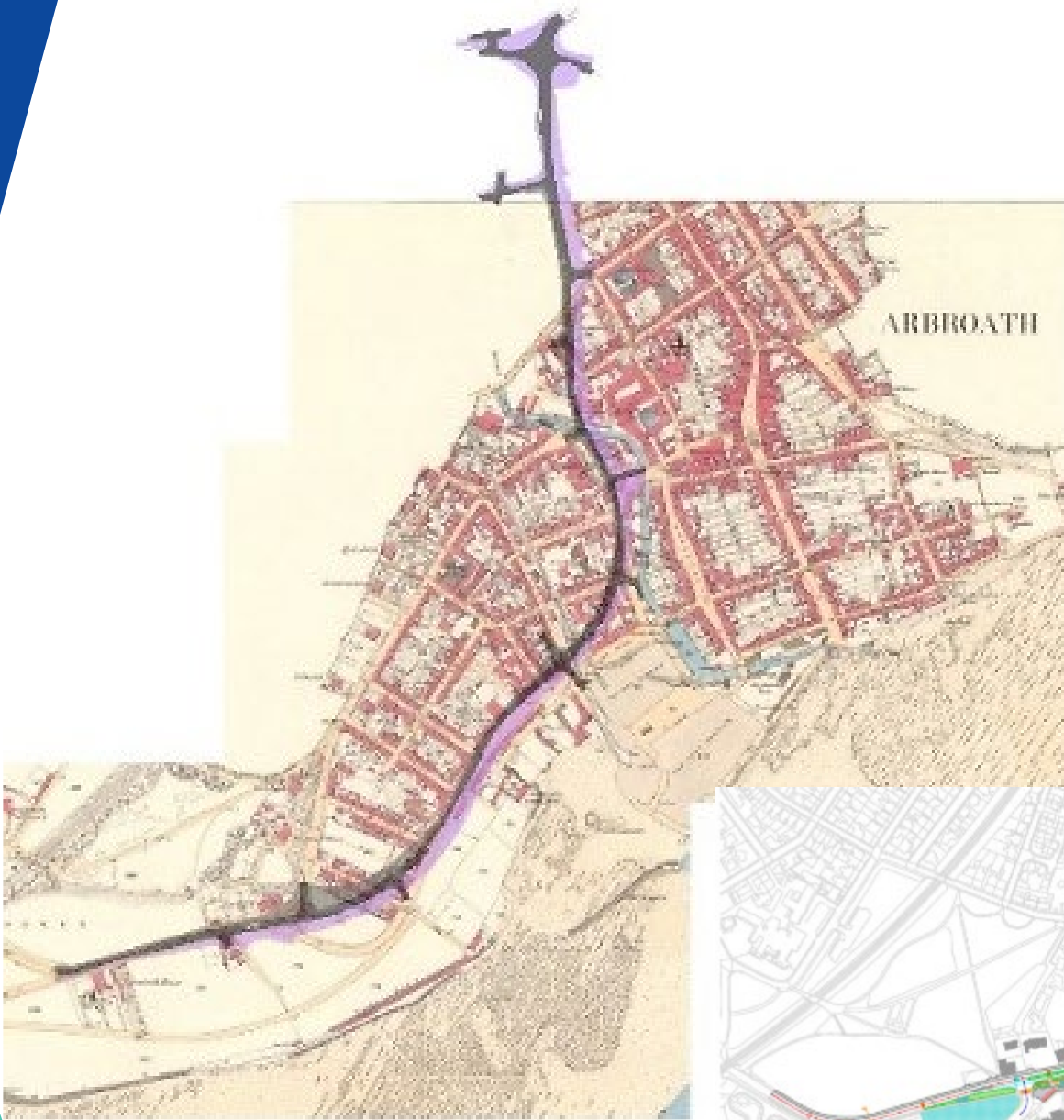


Engagement
And Design





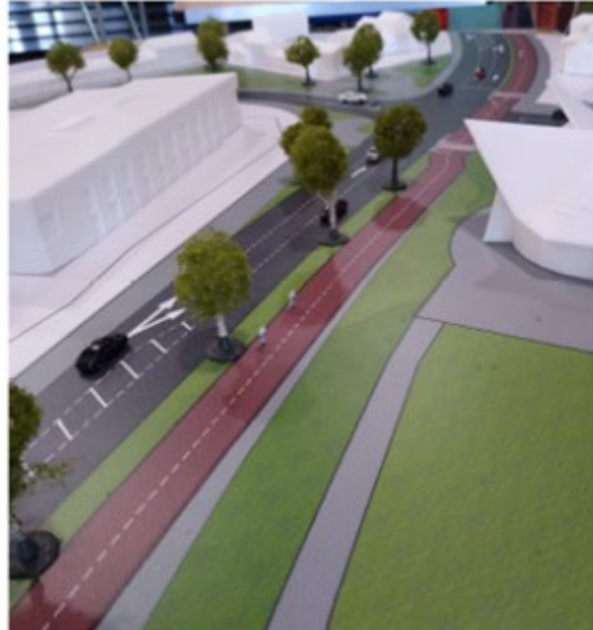
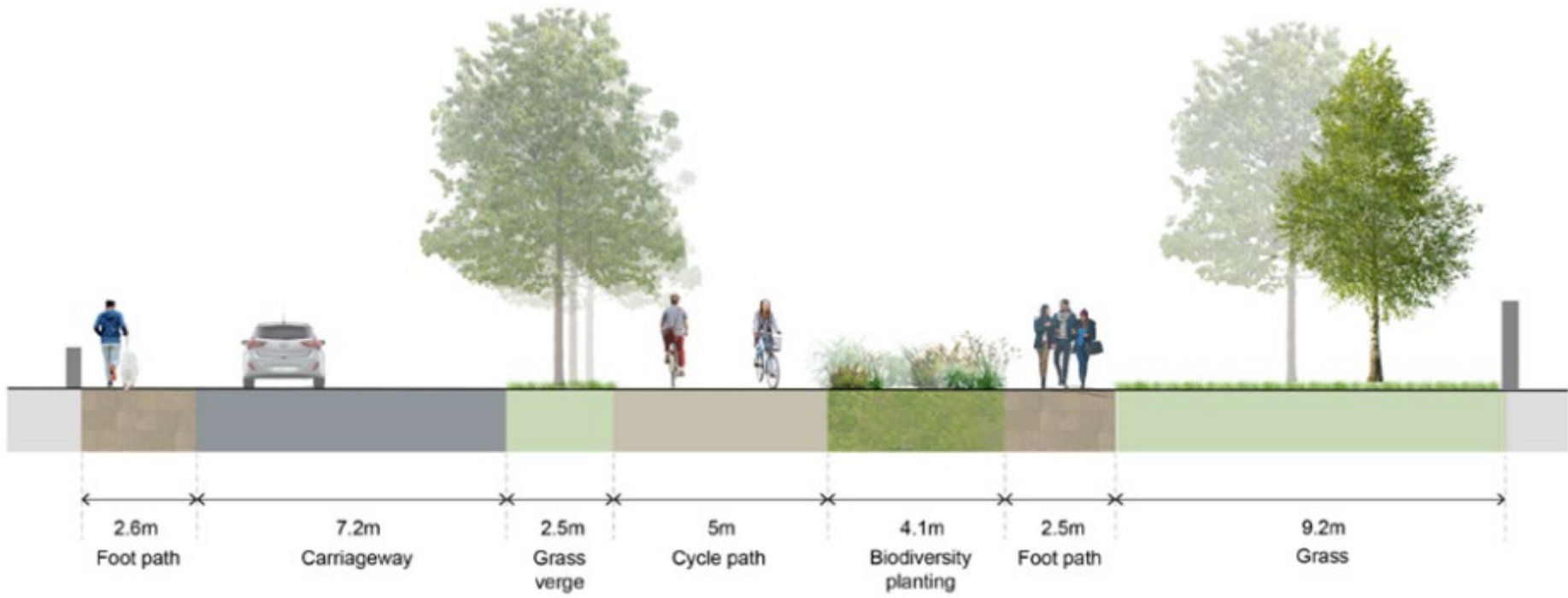
Engagement
And Design



Engagement And Design



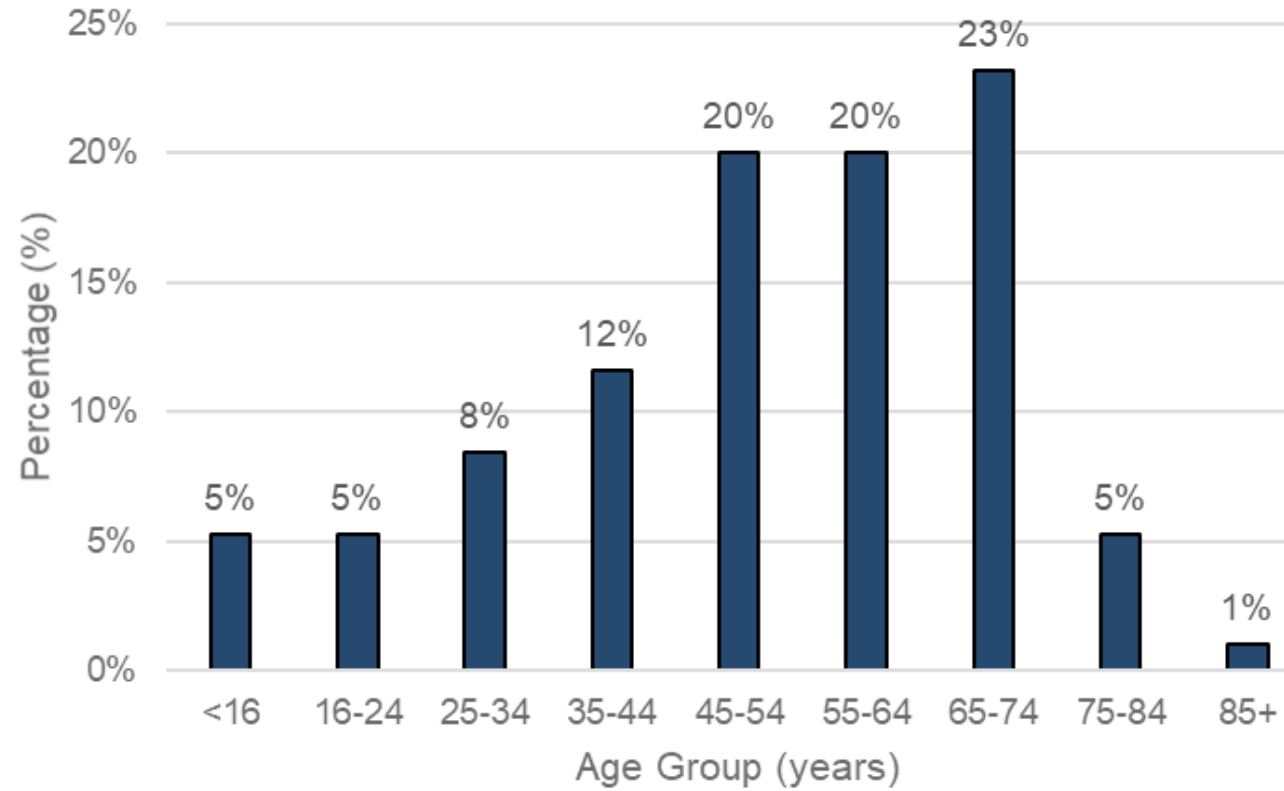
Engagement And Design



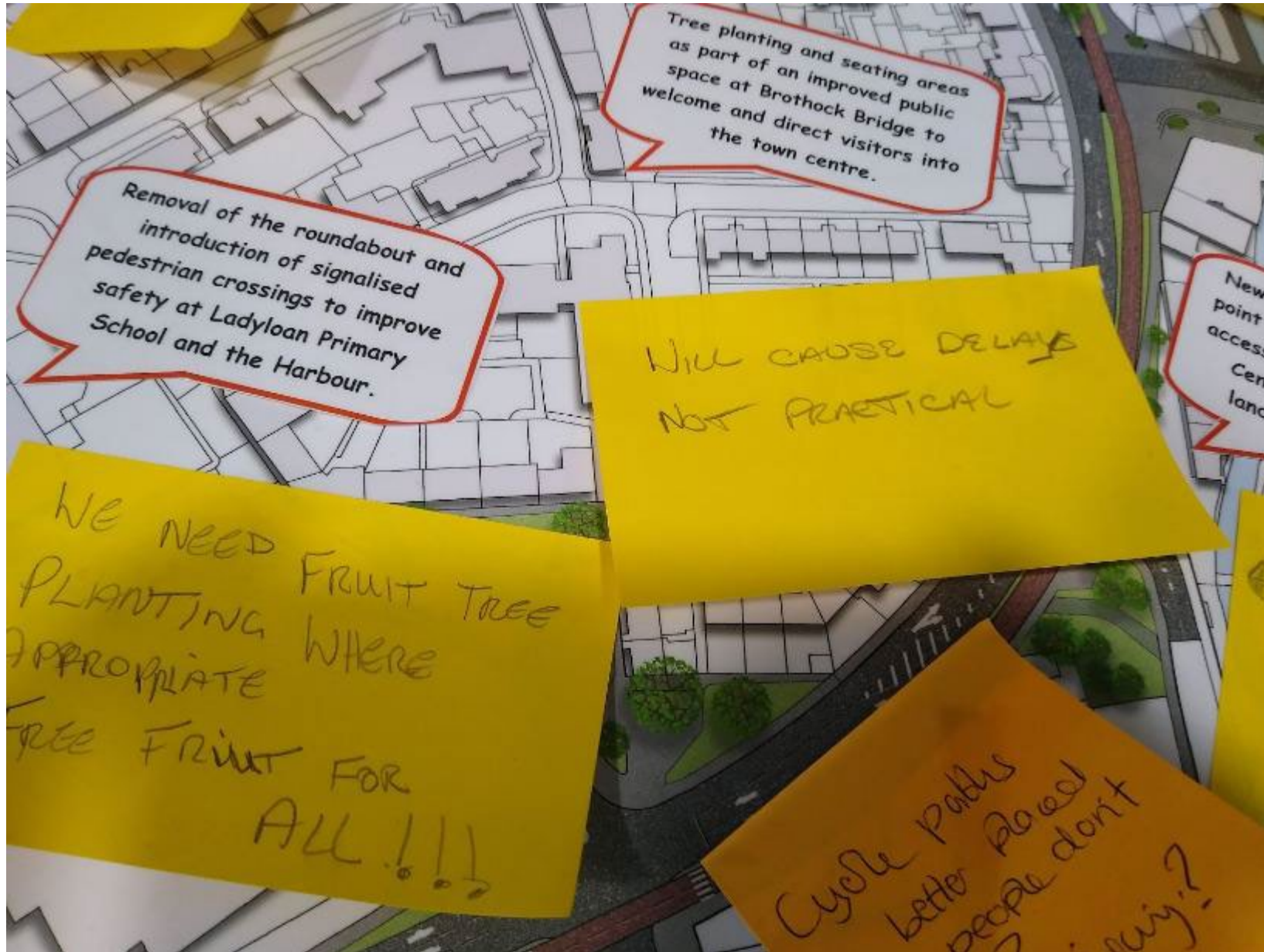
- Public Consultation – Online Social Pinpoint survey, route intercept, supermarkets, bus and rail station surveys
- Drop in events at the Harbour Visitor Centre, Abbeygate Shopping Centre & Brothock Bridge
- Primary & Secondary School workshops
- 3D scale physical & digital models
- You-tube fly-through video
- Stakeholder Consultation – Local Elected Members & Community Council
- Regular engagement with Sustrans
- Environmental workshops with NatureScot
- Liaison with Scottish Water
- Emergency Services consultations
- Angus Disability Forum consultations
- Street Trial publicity in the local press
- Face-to-face meetings with local businesses
- Active Travel Festival
- Traffic modelling & Road Safety Audit
- Automatic traffic counters during street trial to monitor vehicle, pedestrian and cyclists



Engagement And Design



Engagement And Design



Engagement
And Design



ARBROATH
A Place for Everyone

Angus Council
Comhairle Aonghais

Graeme McLean – Construction Methodology

The Methodology

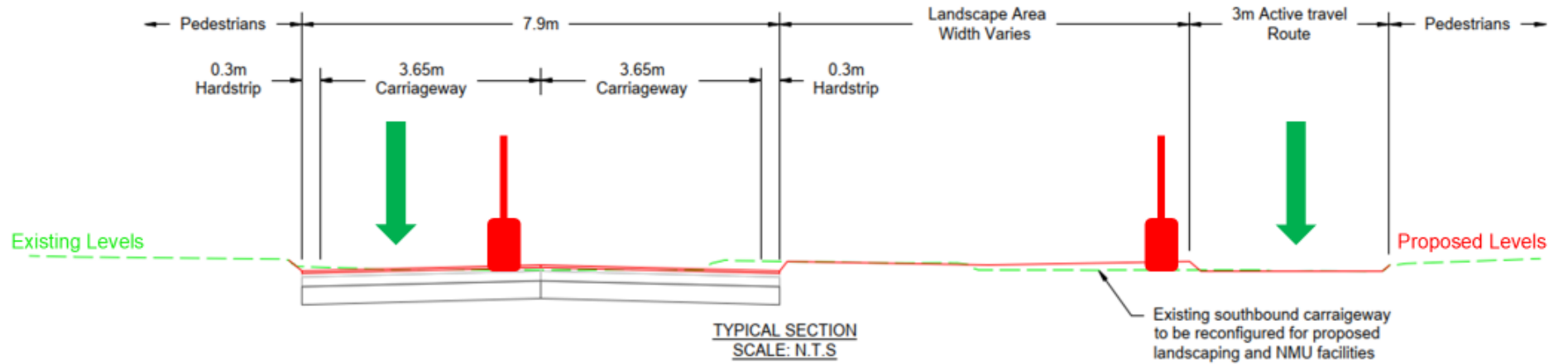
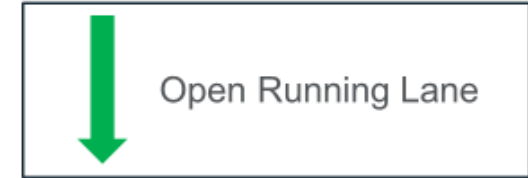
The construction methodology is sequenced as follows:

- Establish traffic management setup
- Down takings and site clearance
- Central reserve drainage
- Excavate for carriageway widening
- Drainage gullies and service installation
- Construct carriageway widening
- Construct cycleway
- Final surfacing
- Soft Landscaping

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The Methodology

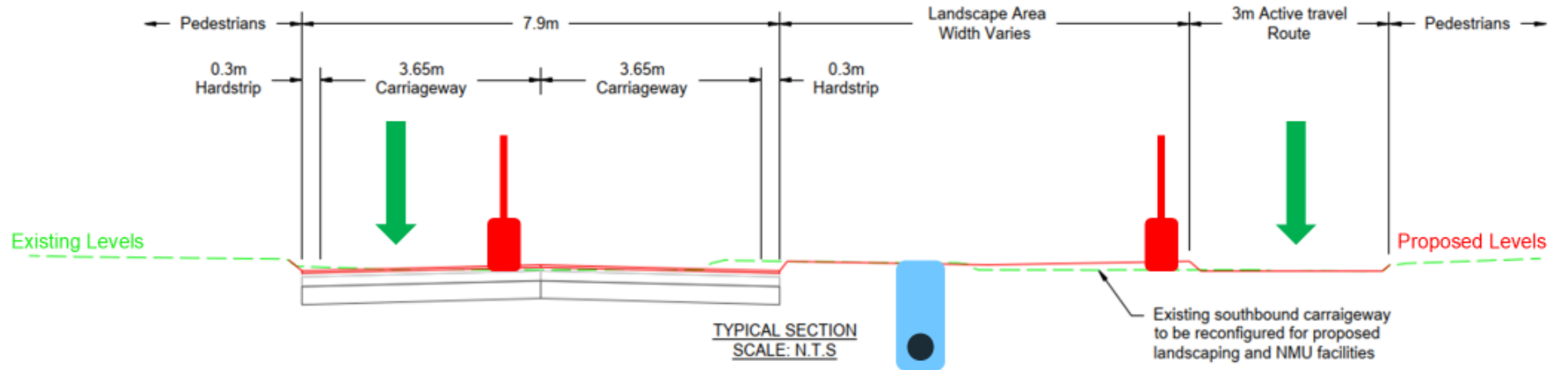
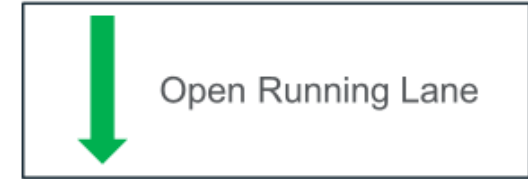
1. Establish traffic management and carry out site clearance



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The Methodology

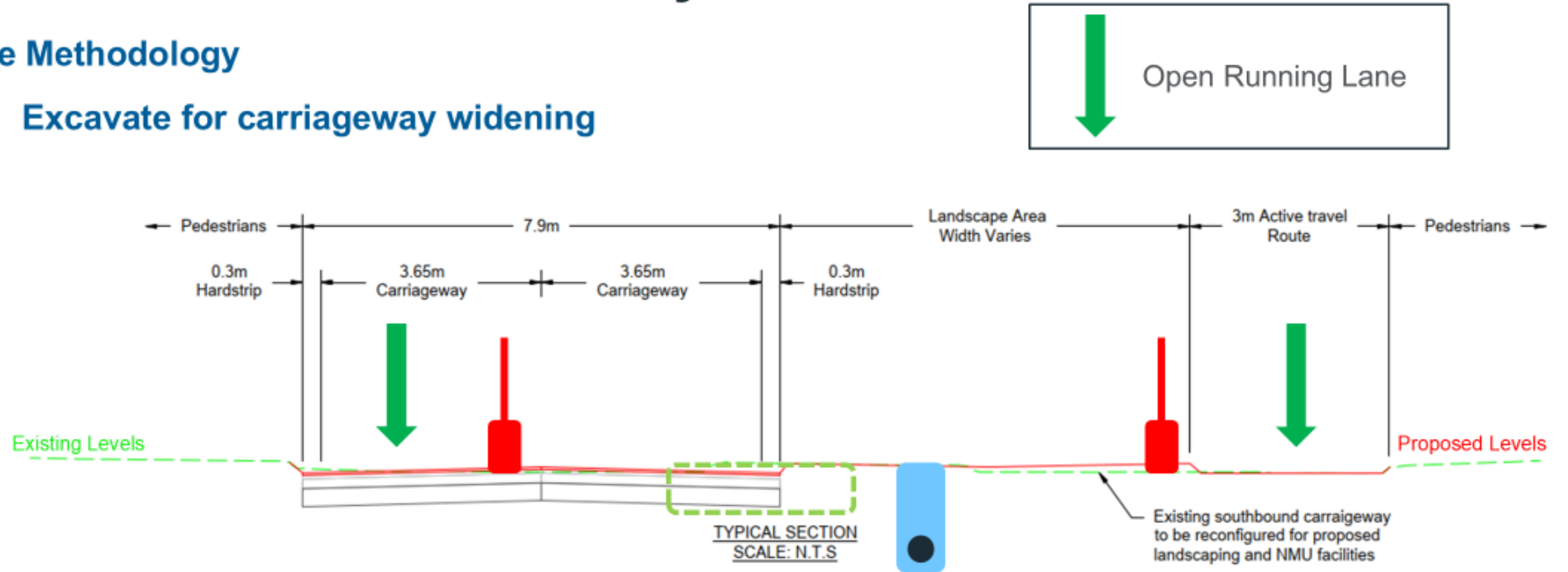
2. Install central reservation drainage



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The Methodology

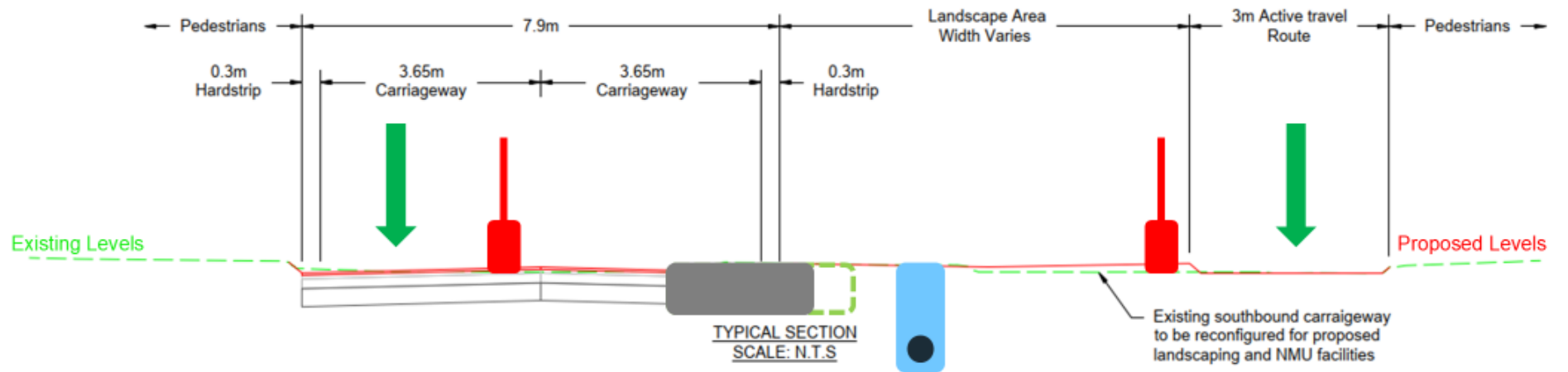
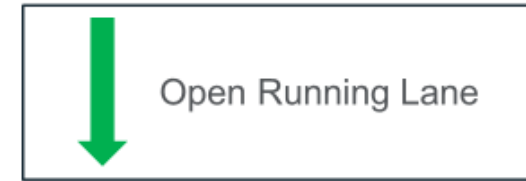
3. Excavate for carriageway widening



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The Methodology

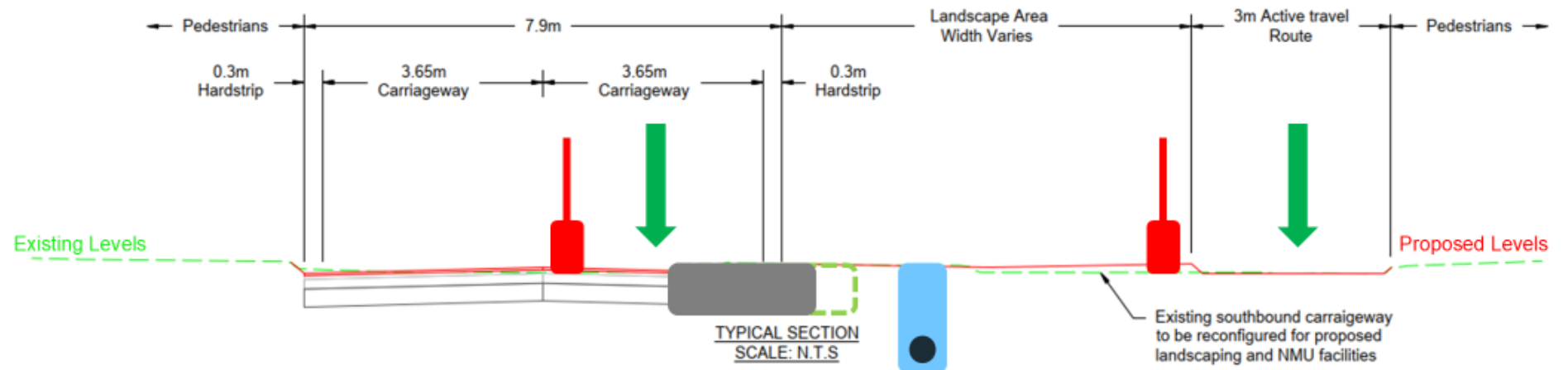
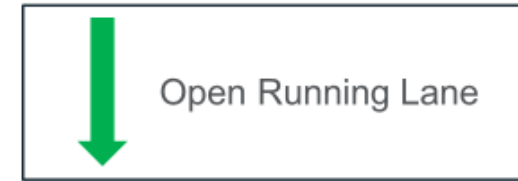
4. Install kerbing and construct carriageway widening



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The Methodology

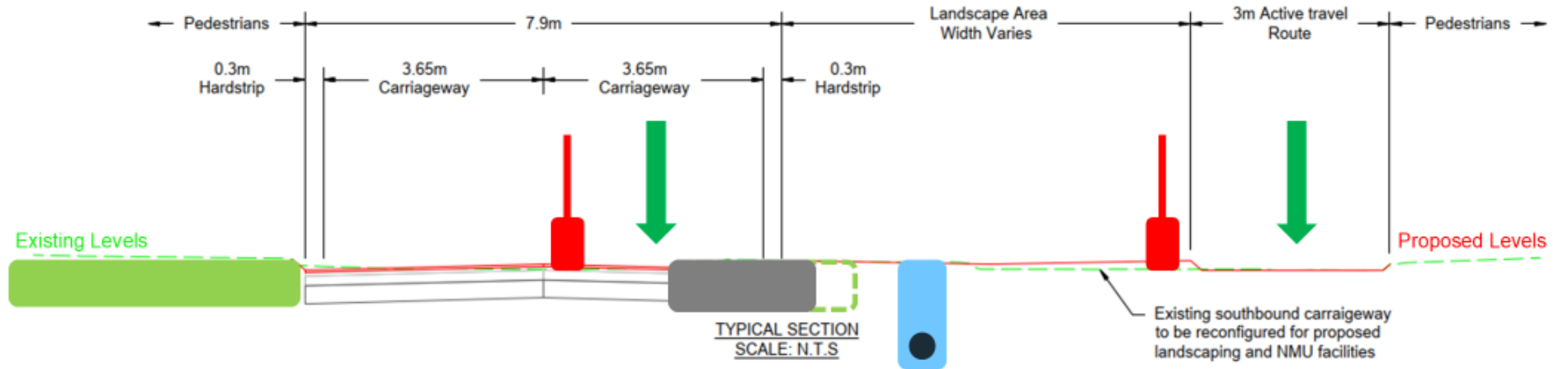
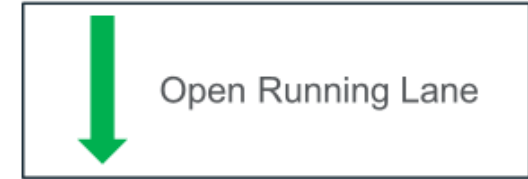
5. Switch traffic management and undertake site clearance



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The Methodology

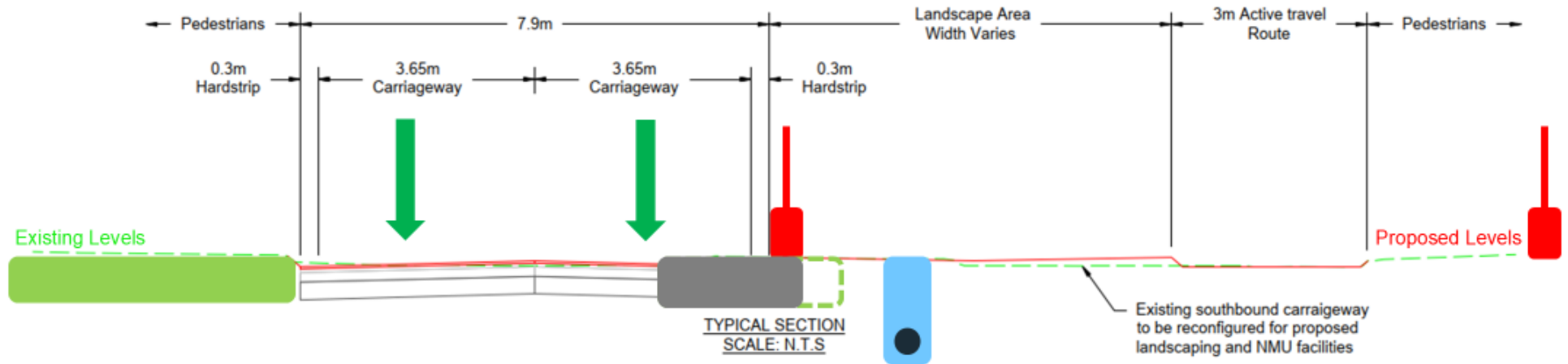
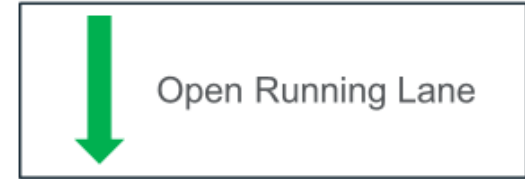
6. Install street lighting and utilities in footway



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The Methodology

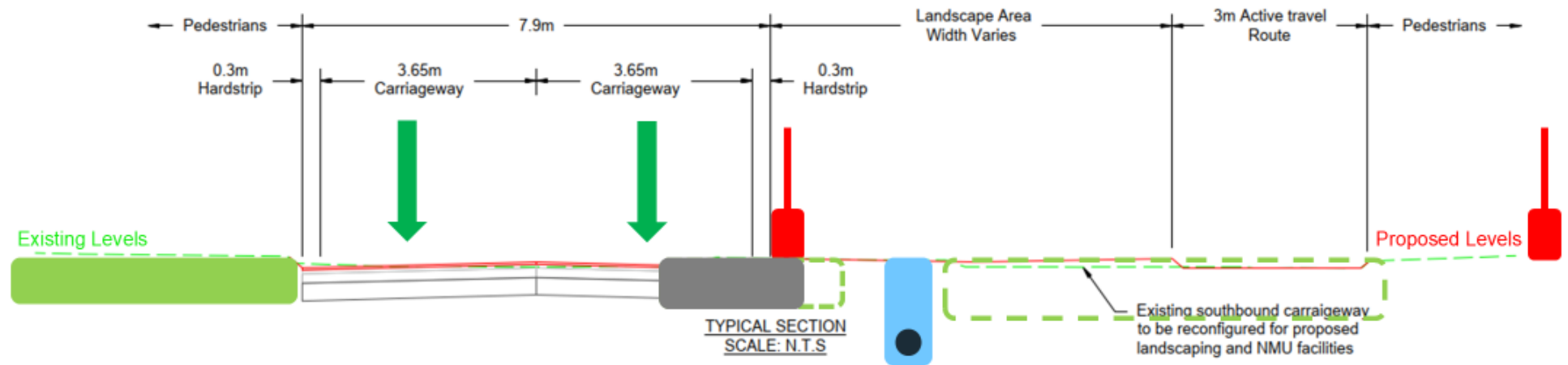
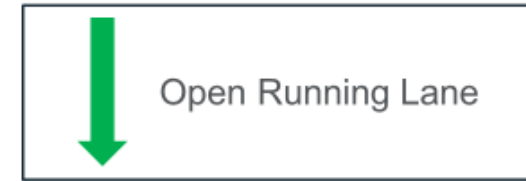
7. Traffic management switch so all vehicles on new alignment



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The Methodology

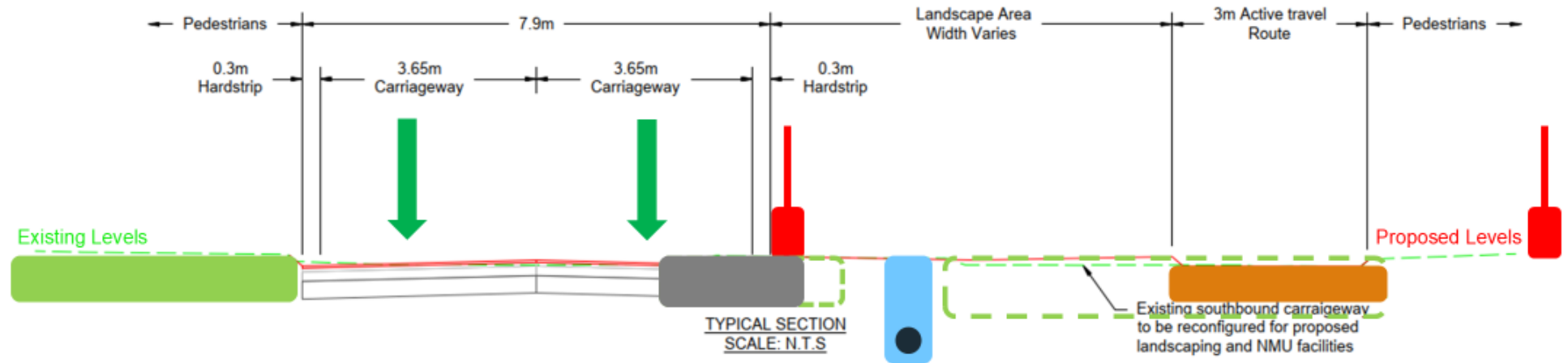
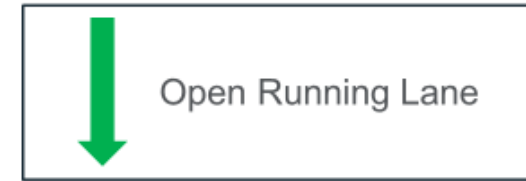
8. Plane out existing carriageway



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The Methodology

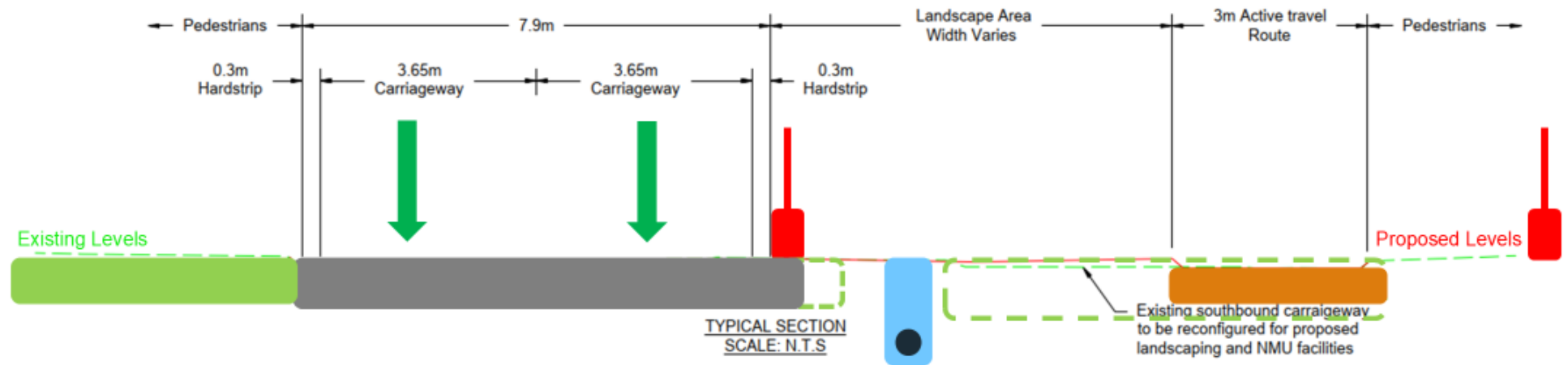
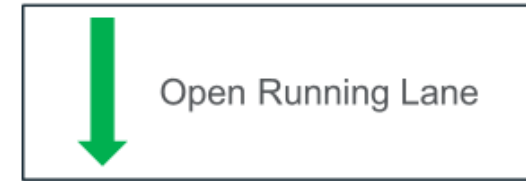
9. Construct cycleway and hard landscaping



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The Methodology

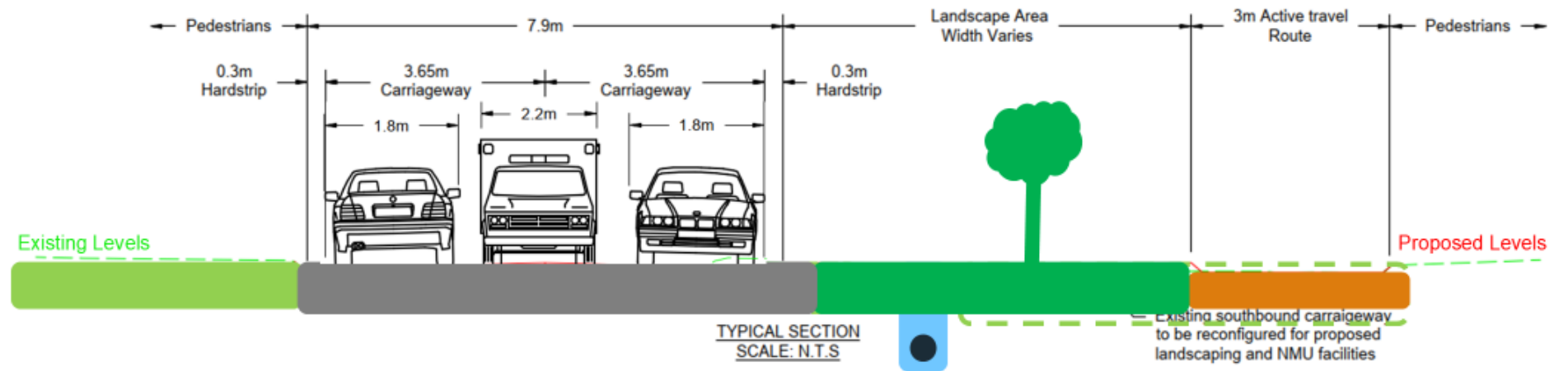
10. Replace surfacing on existing carriageway



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The Methodology

11. Soft landscaping and remove traffic management



Traffic Management



- Prioritising traffic flows along the A92 by using one-way systems and local diversion routes over TTL's.
- Utilising existing traffic signals in temporary configurations
- This approach gave savings in TTL times for construction of junctions
- Lordburn Junction:
 - Programmed - 41 weeks. Actual – 0 weeks
- Harbour Junction:
 - Programmed - 24 weeks. Actual – 0 weeks
- Guthrie Port Roundabout:
 - Programmed – 44 weeks. Actual – 4 weeks

*Before and
After*

Before and After Images

Before and After



Before and After



Before and After



Before and After



Activation
and Legacy



Activation and Legacy



Activation
and Legacy



TRANSPORT
SCOTLAND
CÒMHDHAIL ALBA

Thank You

Any Questions?

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Balfour Beatty



Angus Council
Comhairle Aonghais