

# **Cambourne to Cambridge**

## **Better Bus Journeys**

### **A1303 Busway Feasibility**

## **GCCD Executive Board Decision**

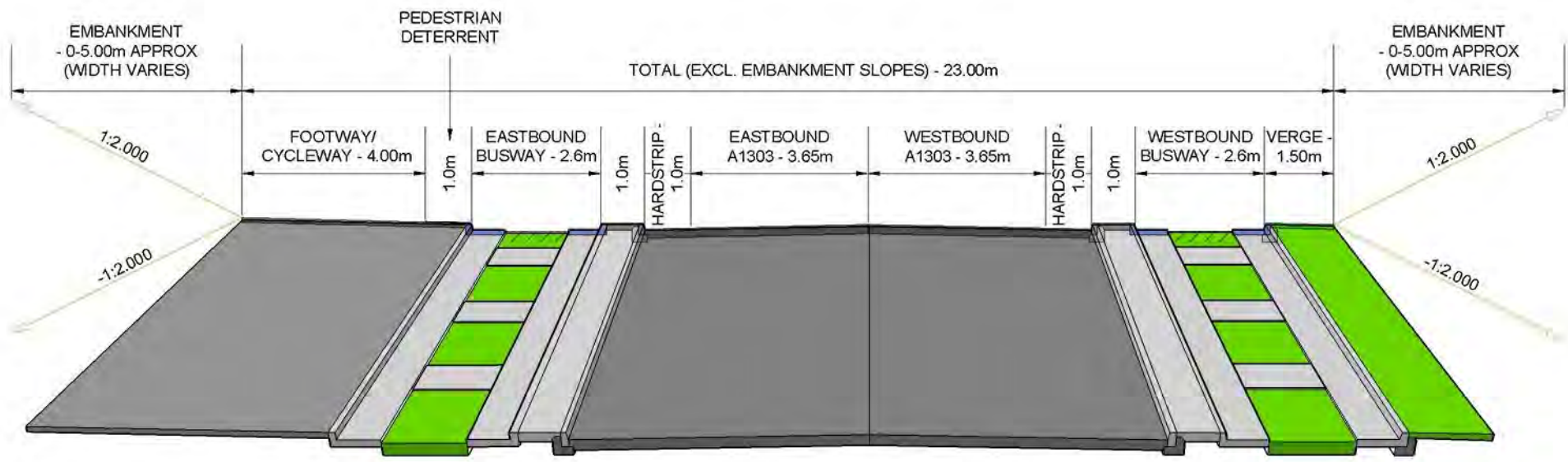
13 October 2016

Undertake a topographical survey of the A1303 from Madingley Mulch to the M11 and undertake preliminary design to assess whether or not it is feasible to provide a two way busway, a cycleway and a road within the existing highway boundary, and to share the information with the Local Liaison Forum.

## A1303 – Assumptions/constraints

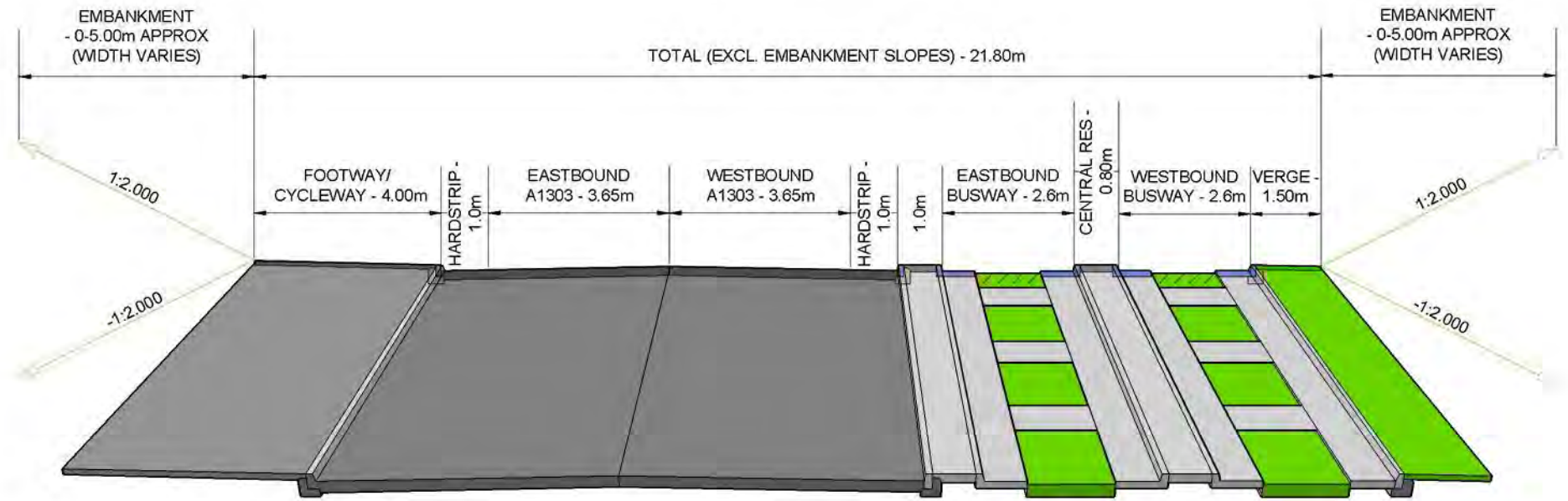
- Busway starts at site 4, or east of Madingley Mulch
- Busway as per the guided Busway Design Handbook
- National design guidance for highways
- Follow the existing corridor as far as reasonably practicable
- Built within highway boundary where possible
- Land take mitigated where possible
- Accesses to be maintained
  - 9 north
  - 8 south
- 5m for temporary works during construction
- No allowance for replacement planting (trees/hedges)

# A1303 – Option A – Split Busway



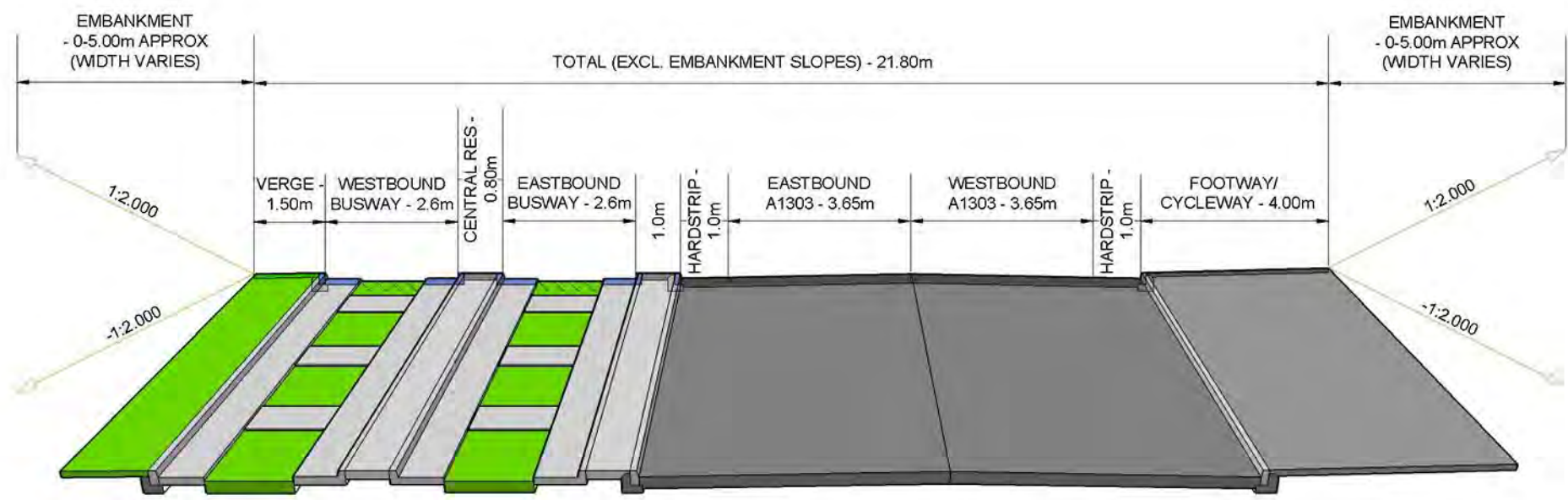
OPTION A

# A1303 – Option B – Busway on the South



OPTION B

# A1303 – Option C – Busway on the North



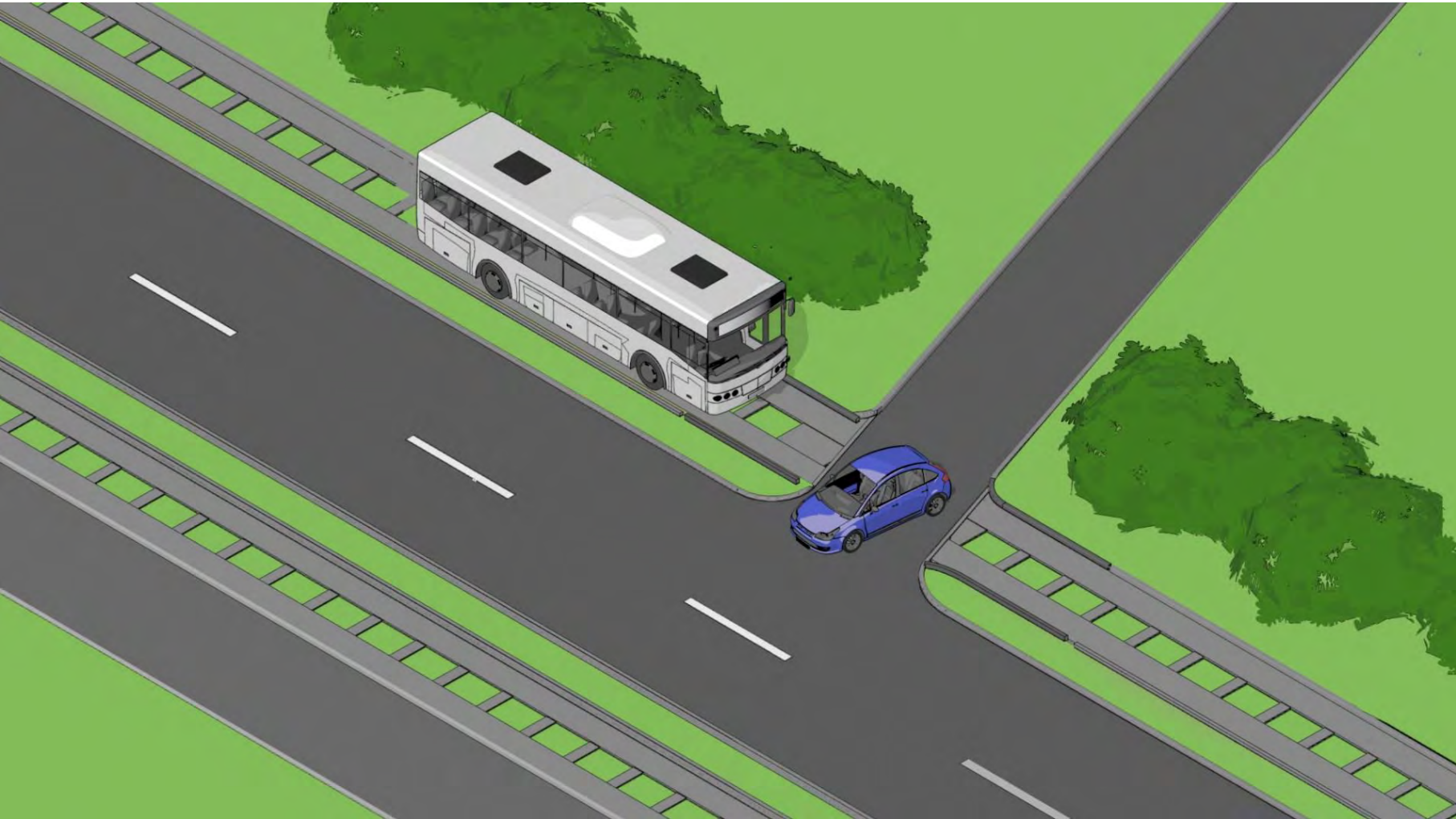
OPTION C

# A1303 – Option D – Busway in the Centre



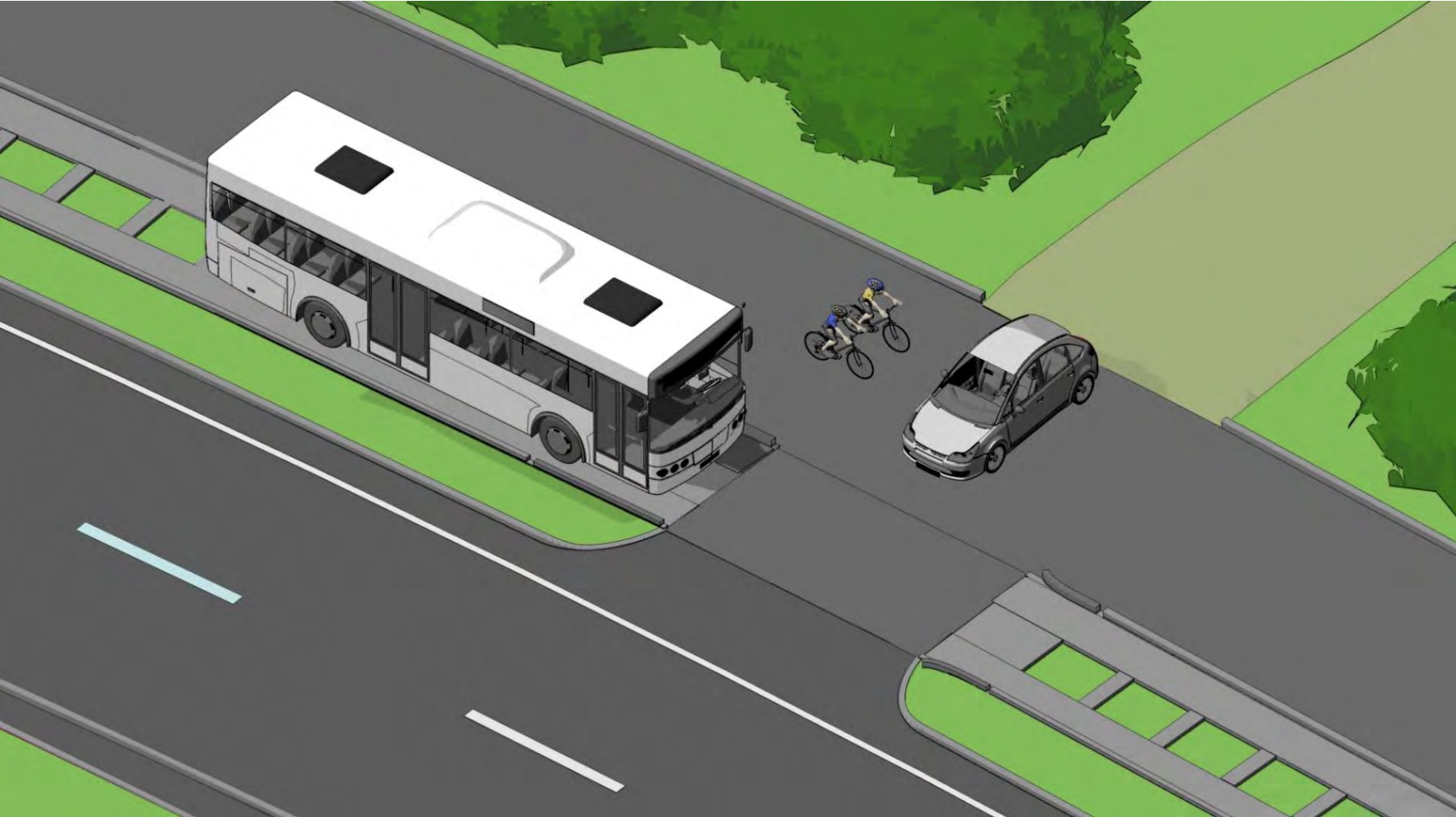
OPTION D

# A1303 – Safety

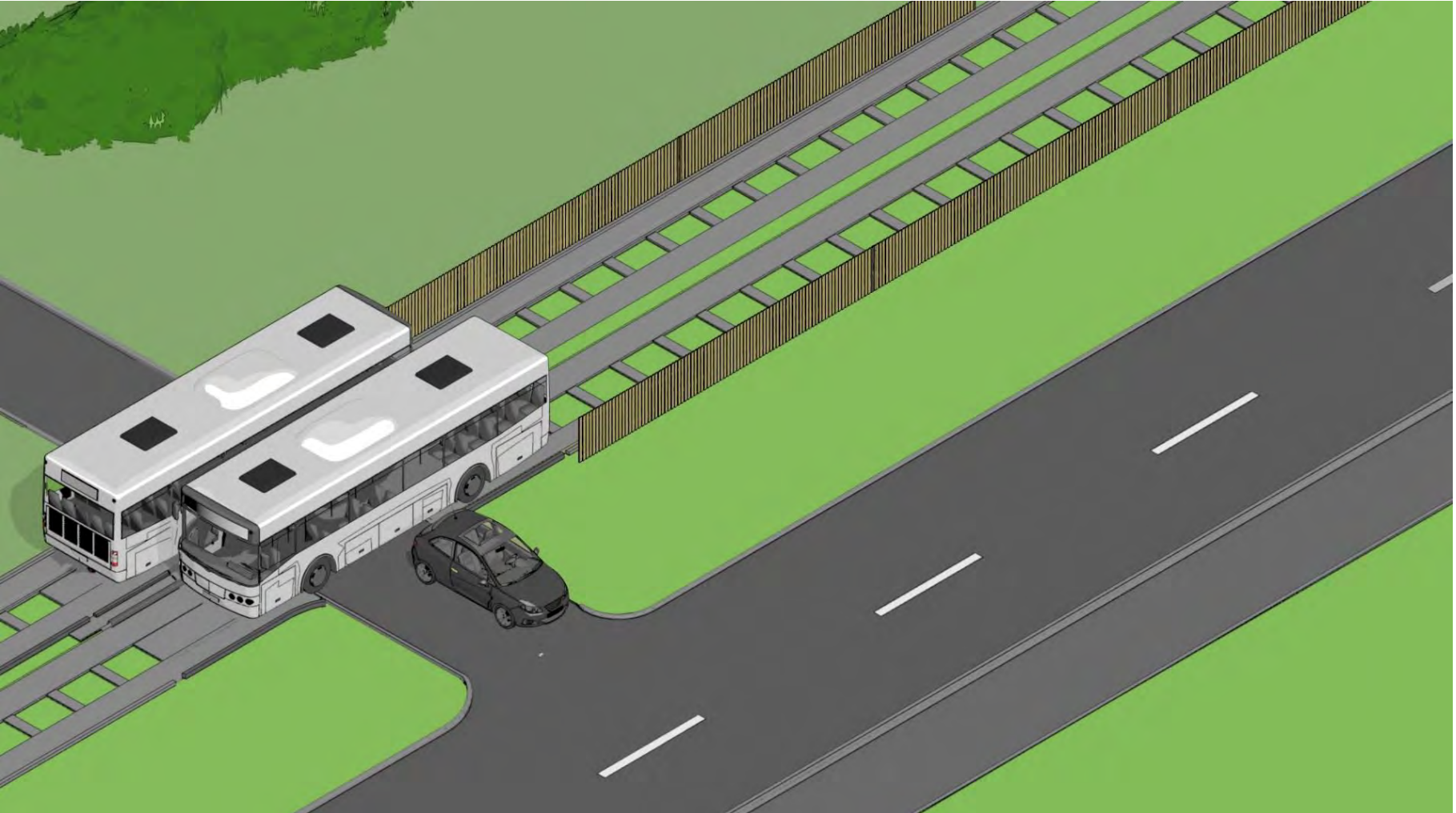




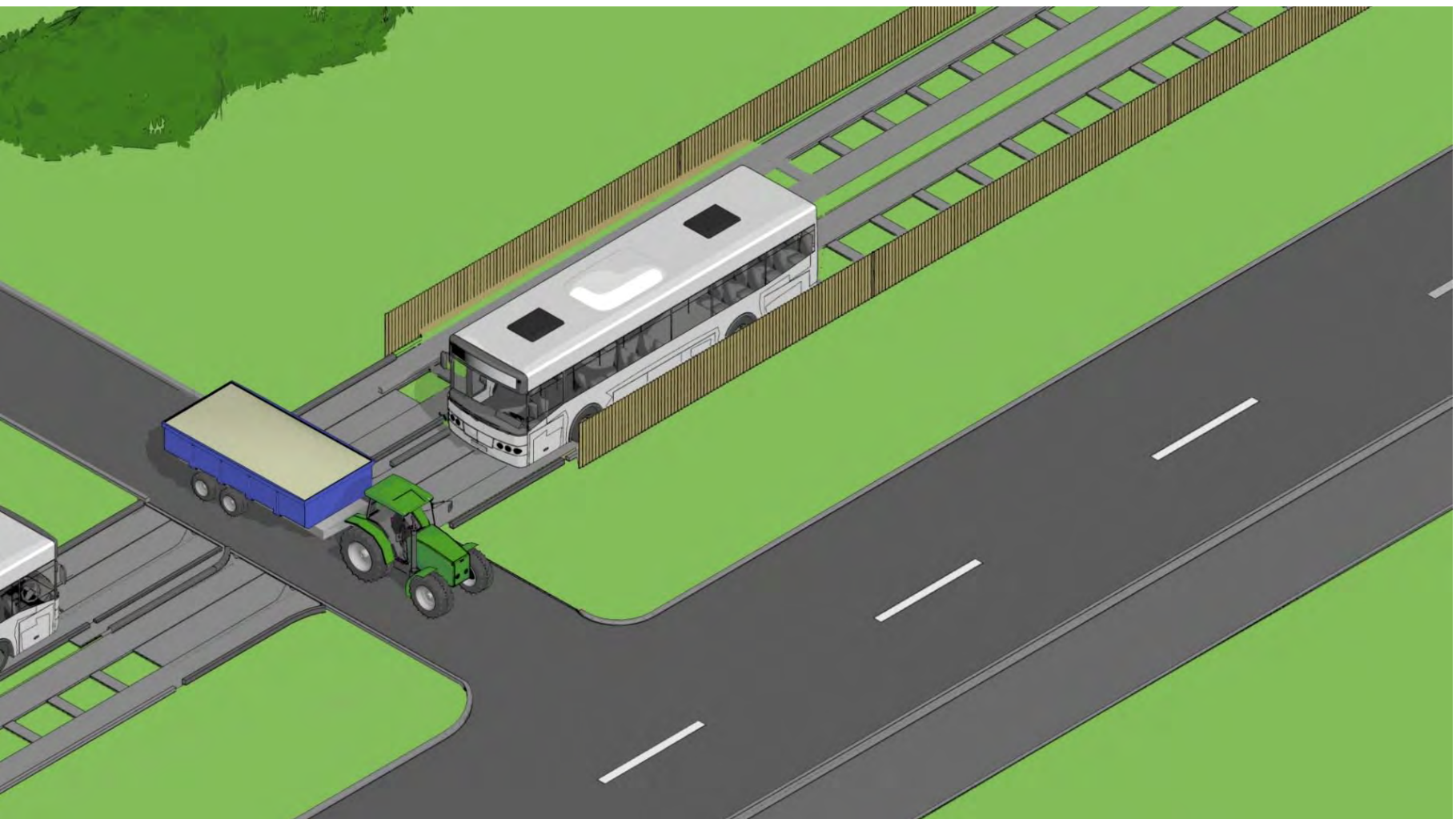
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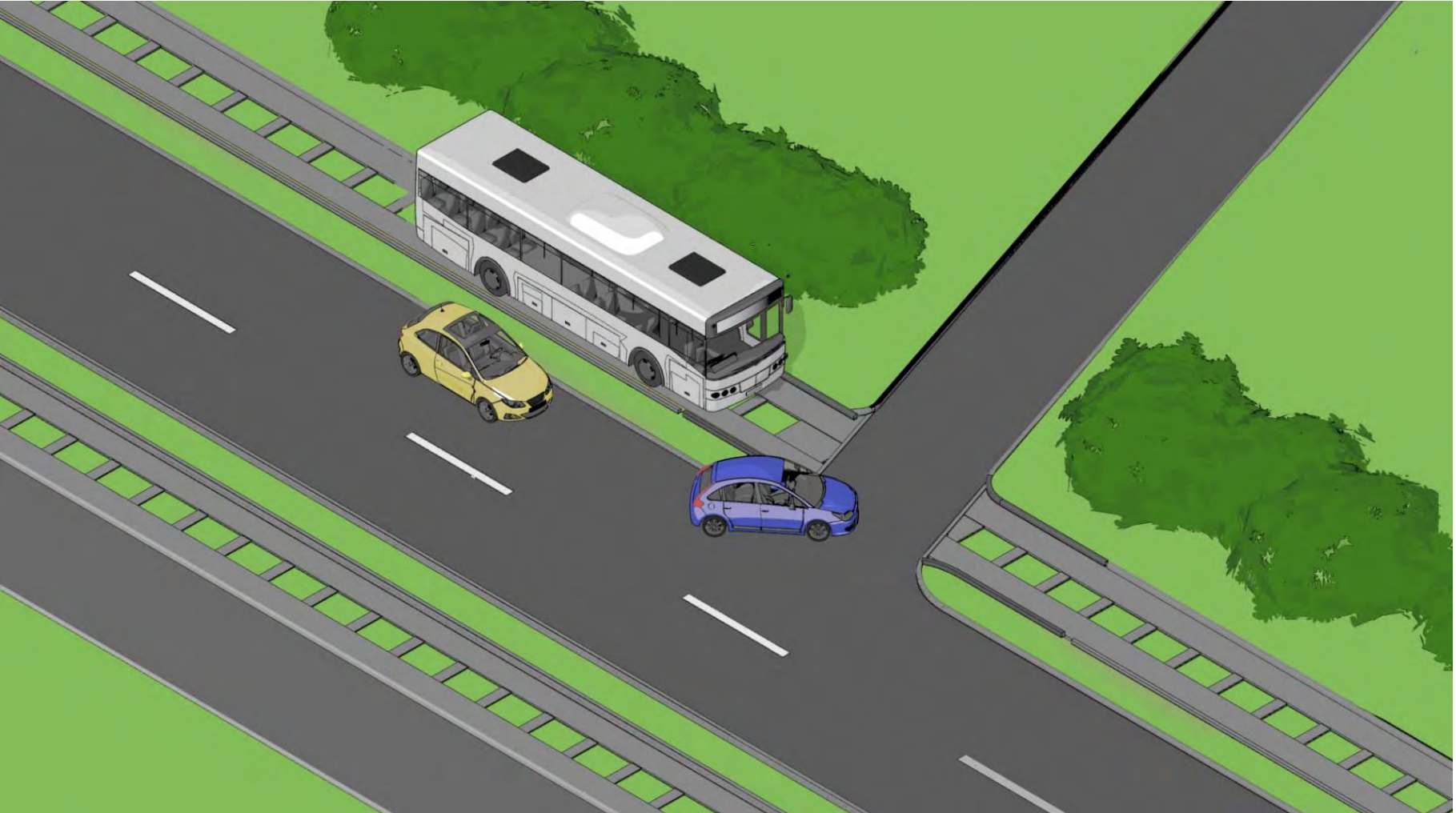
# A1303 – Safety



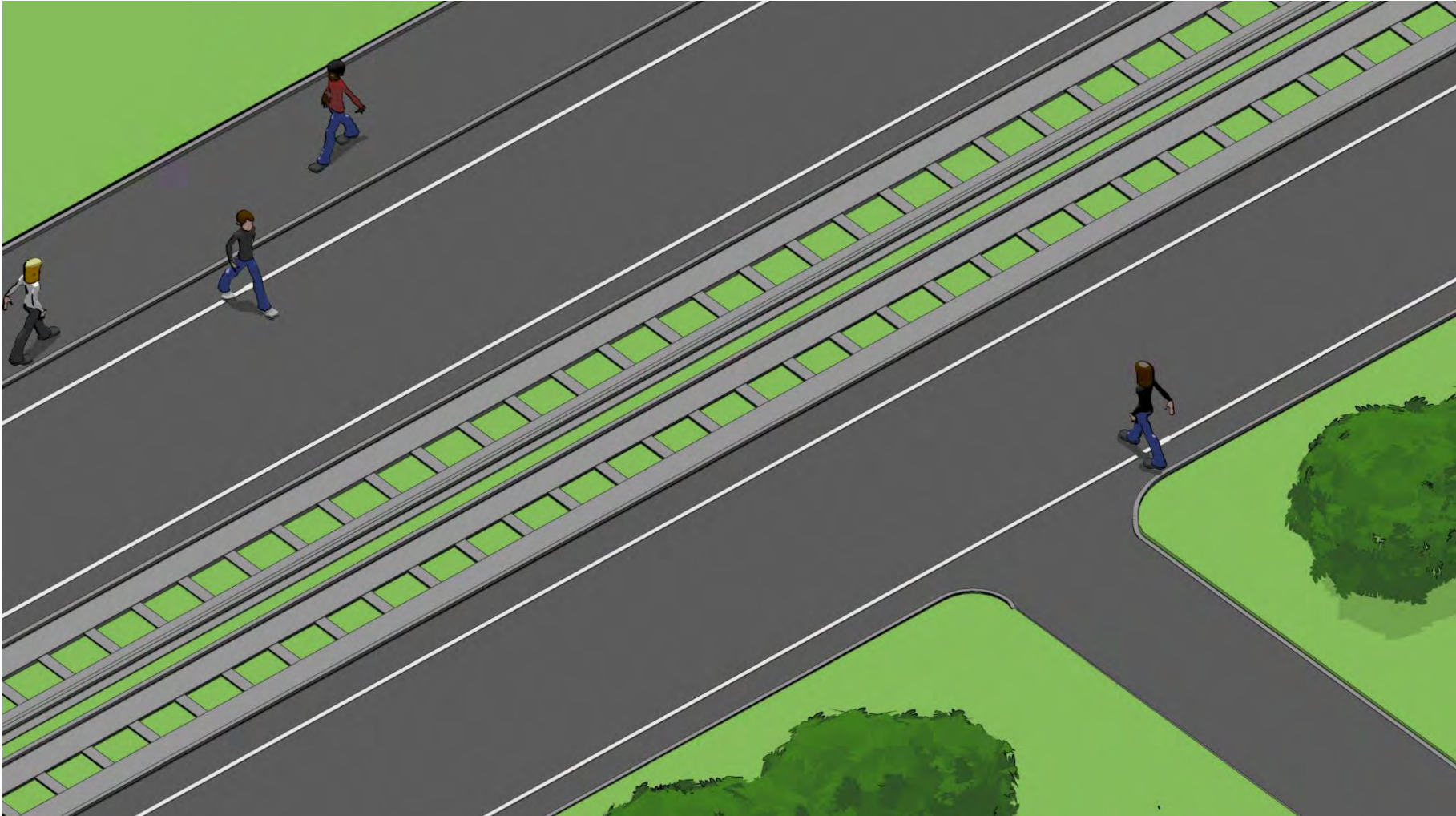
# A1303 – Safety



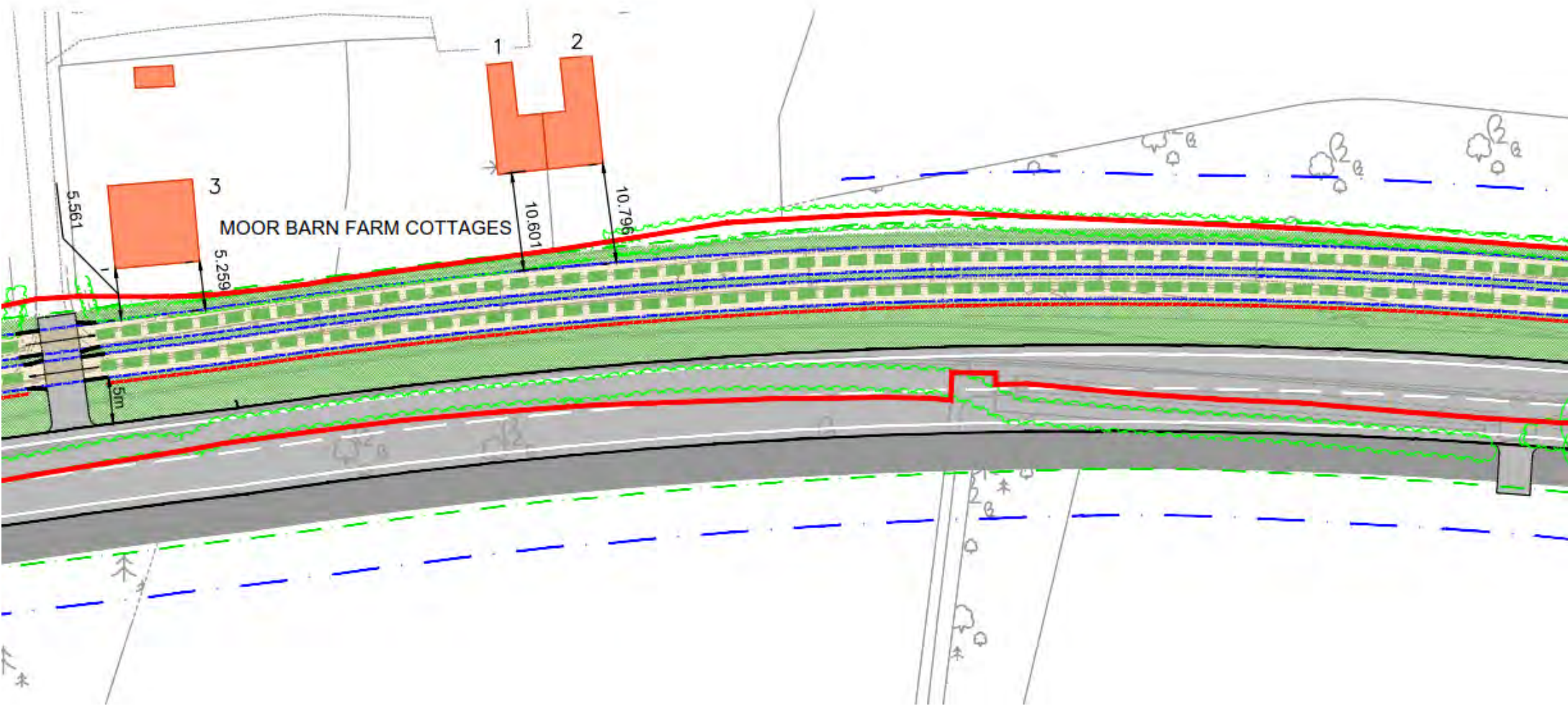
# A1303 – Safety



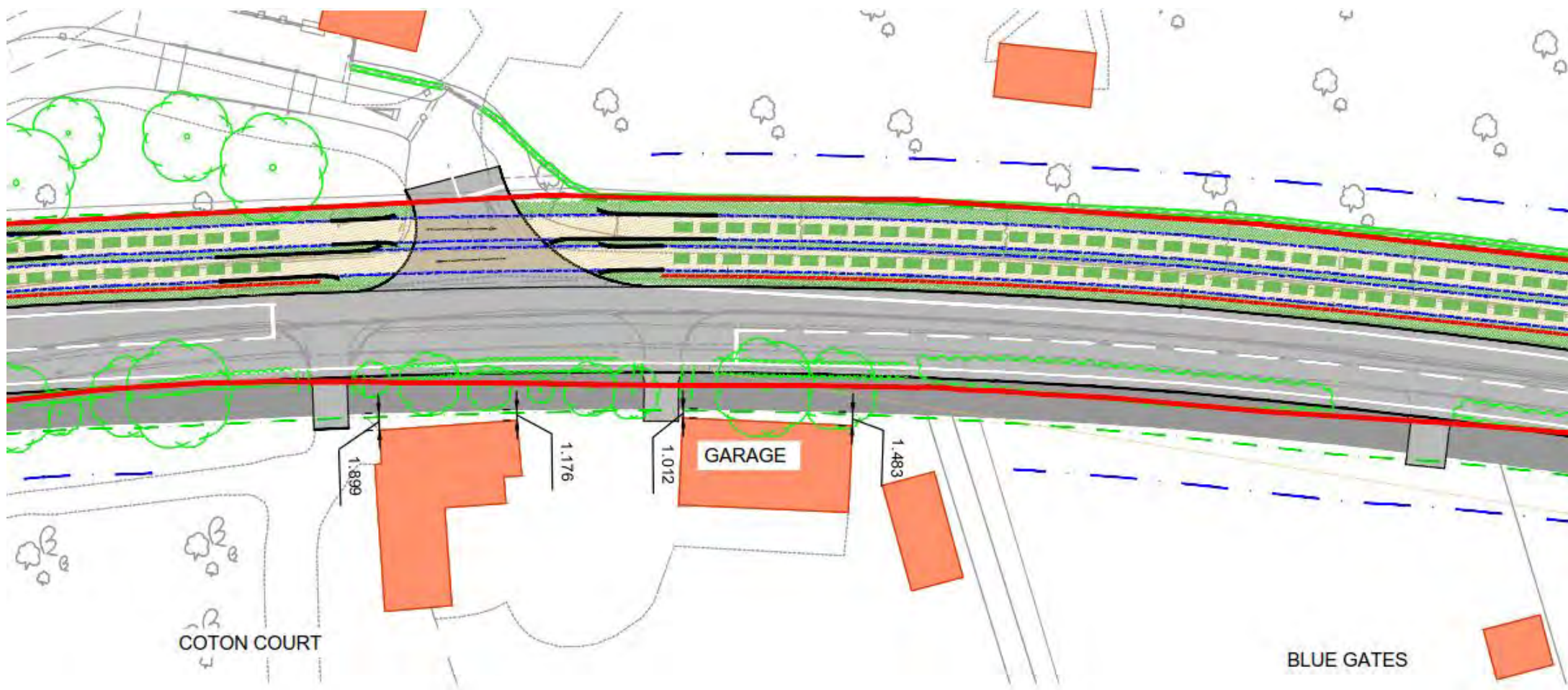
# A1303 – Safety



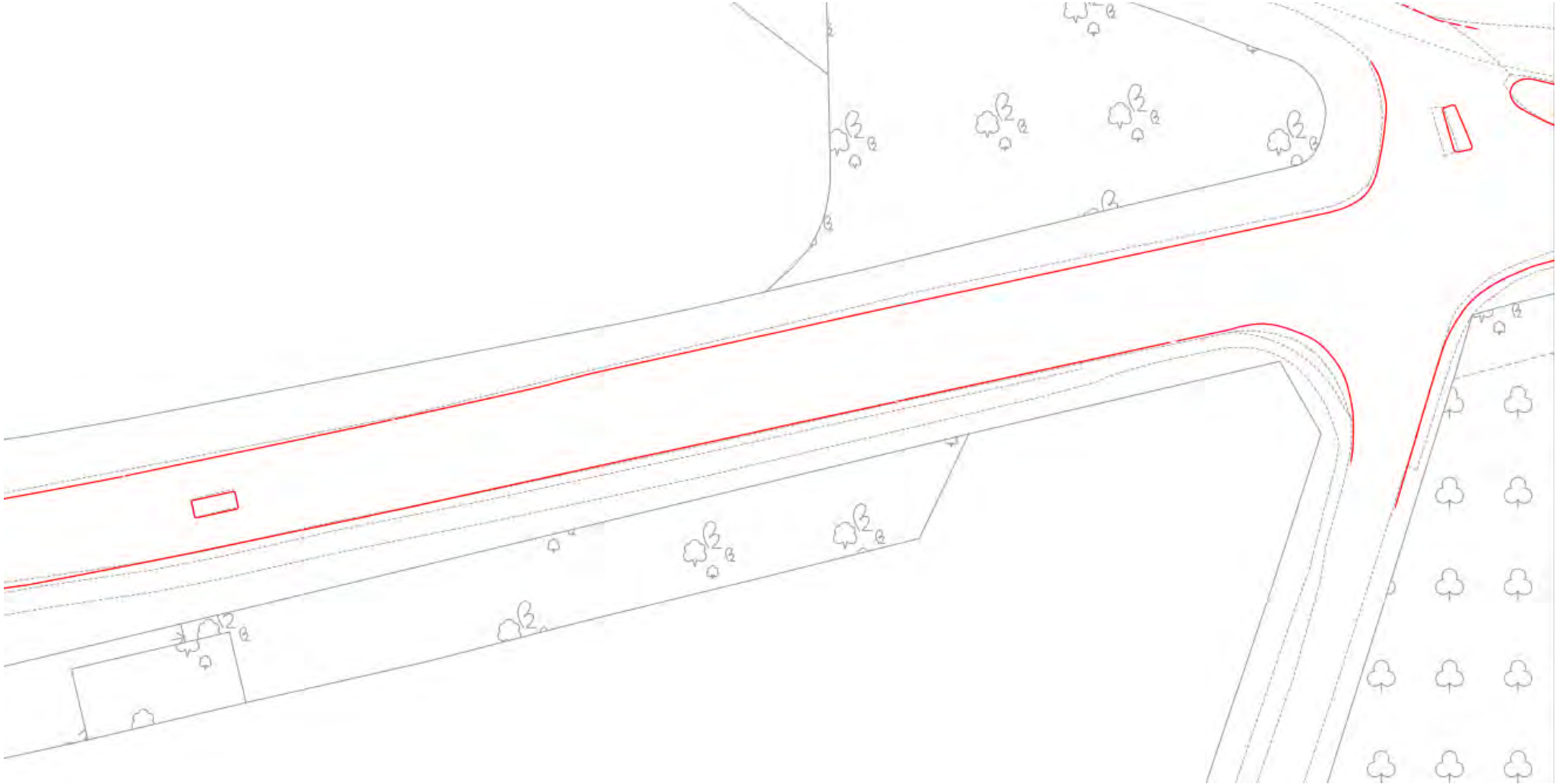
# A1303 – Property



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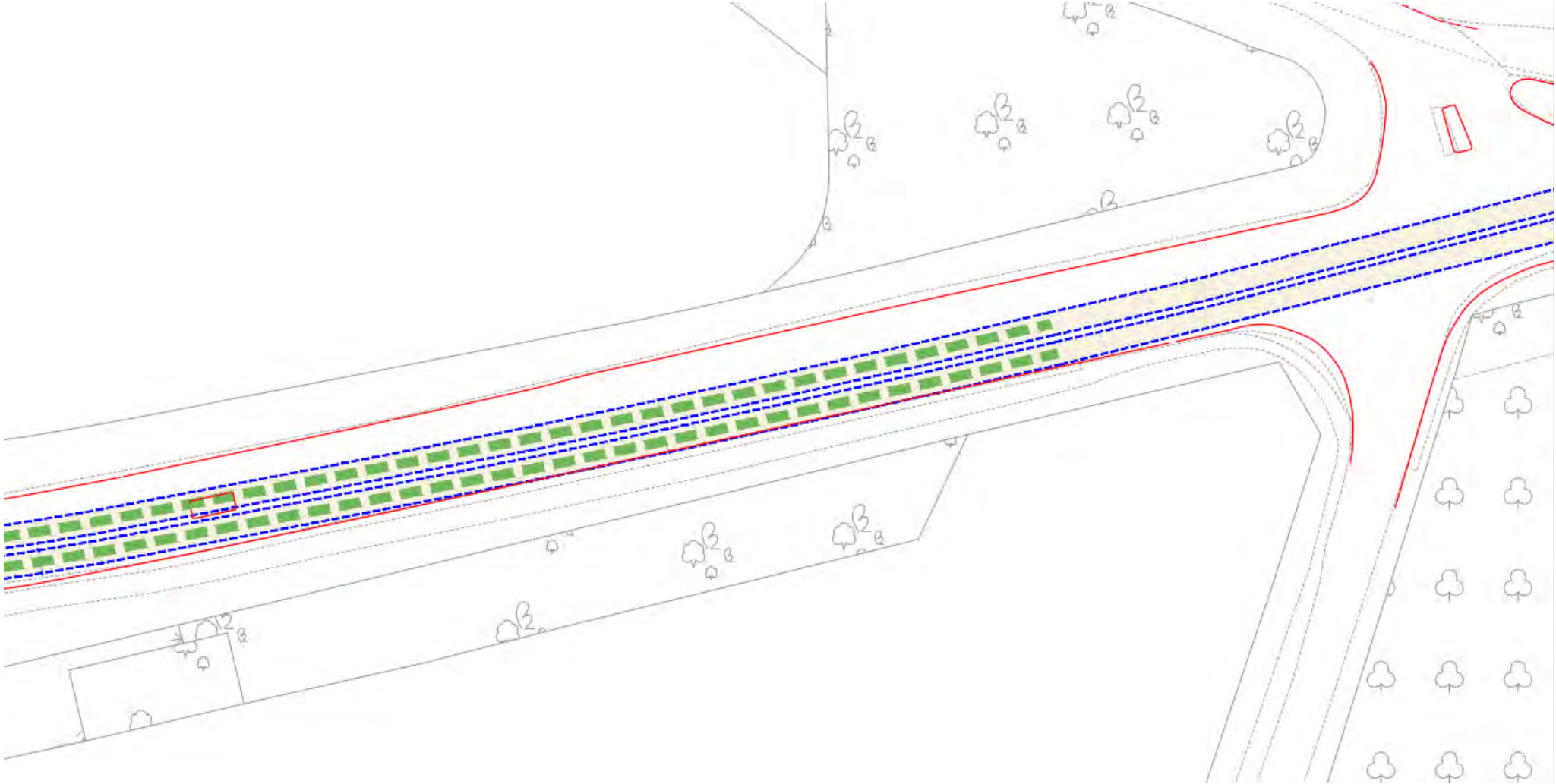


# A1303 – Buildability

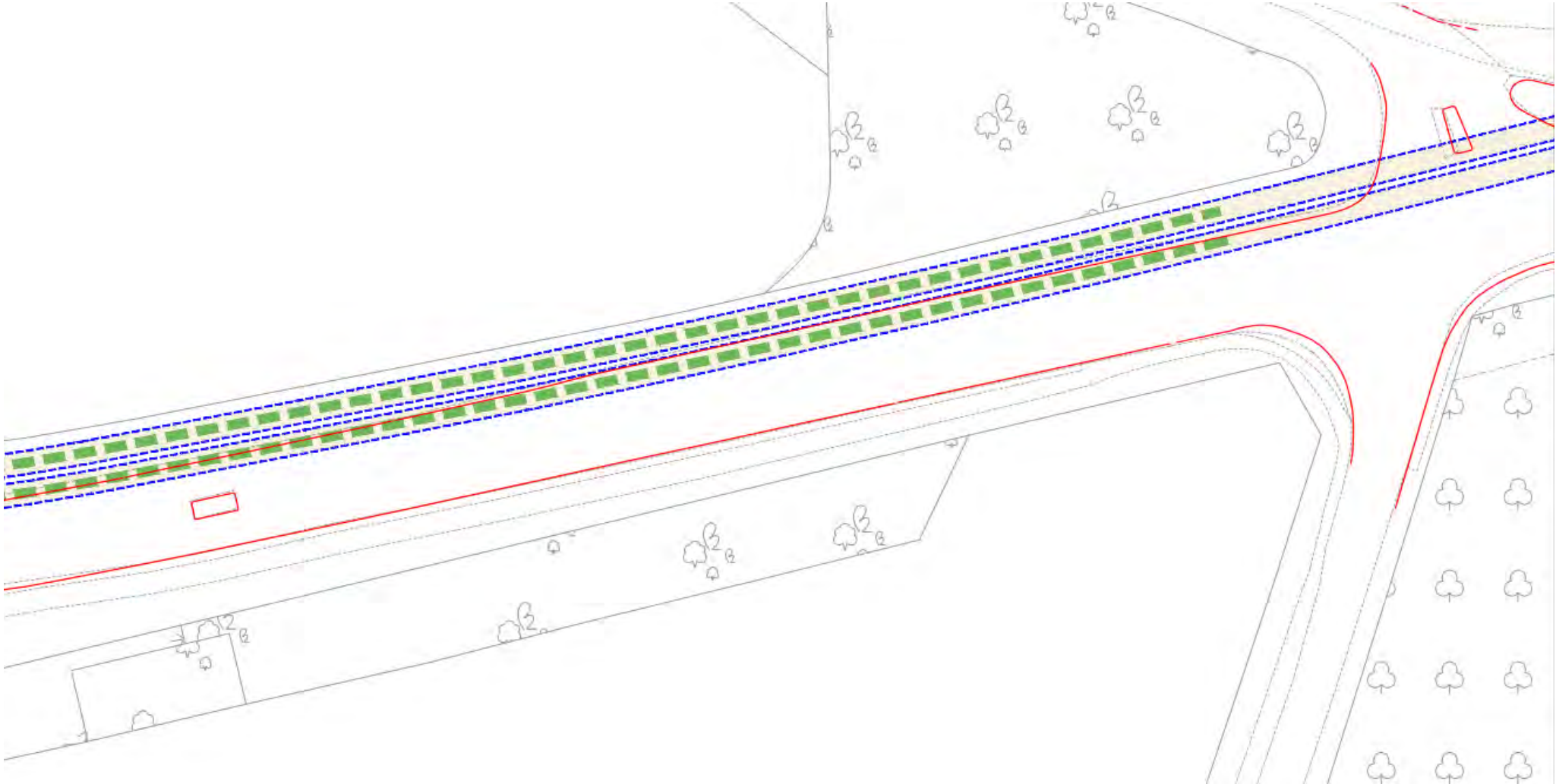




# A1303 – Buildability



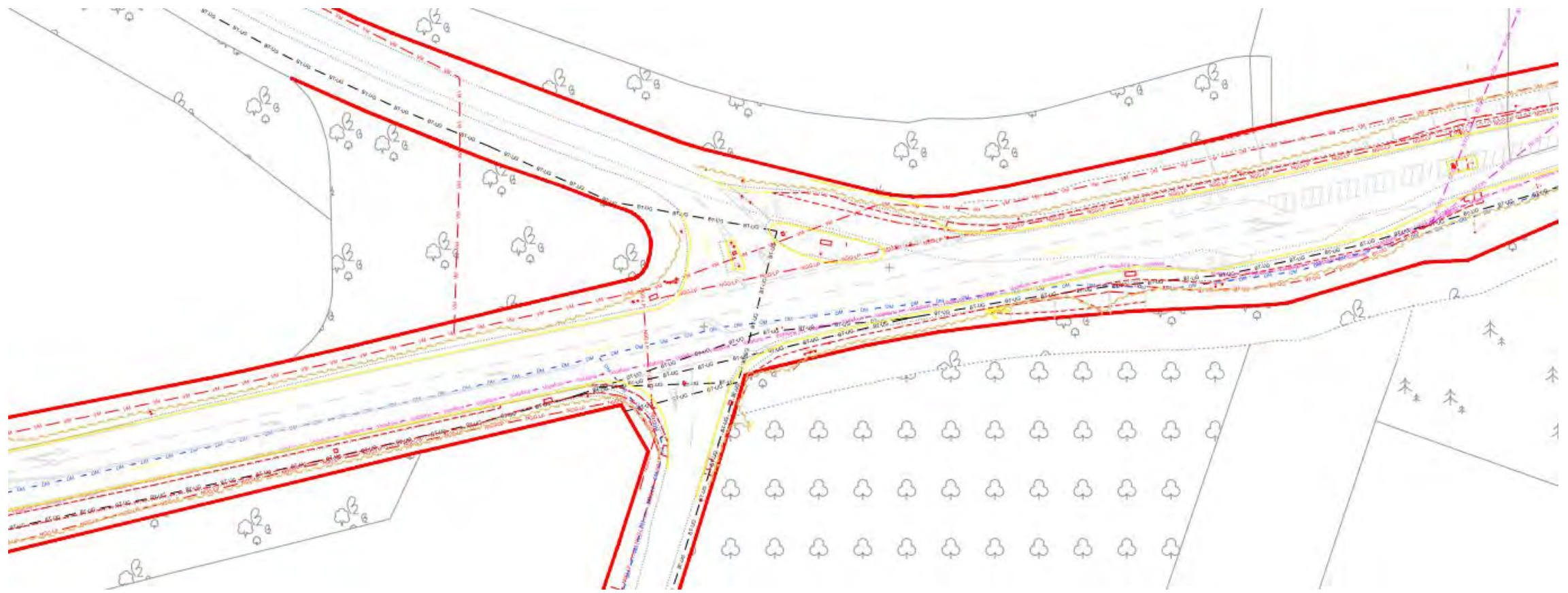
# A1303 – Buildability



# A1303 – Buildability



# A1303 – Buildability



# A1303 – Environmental



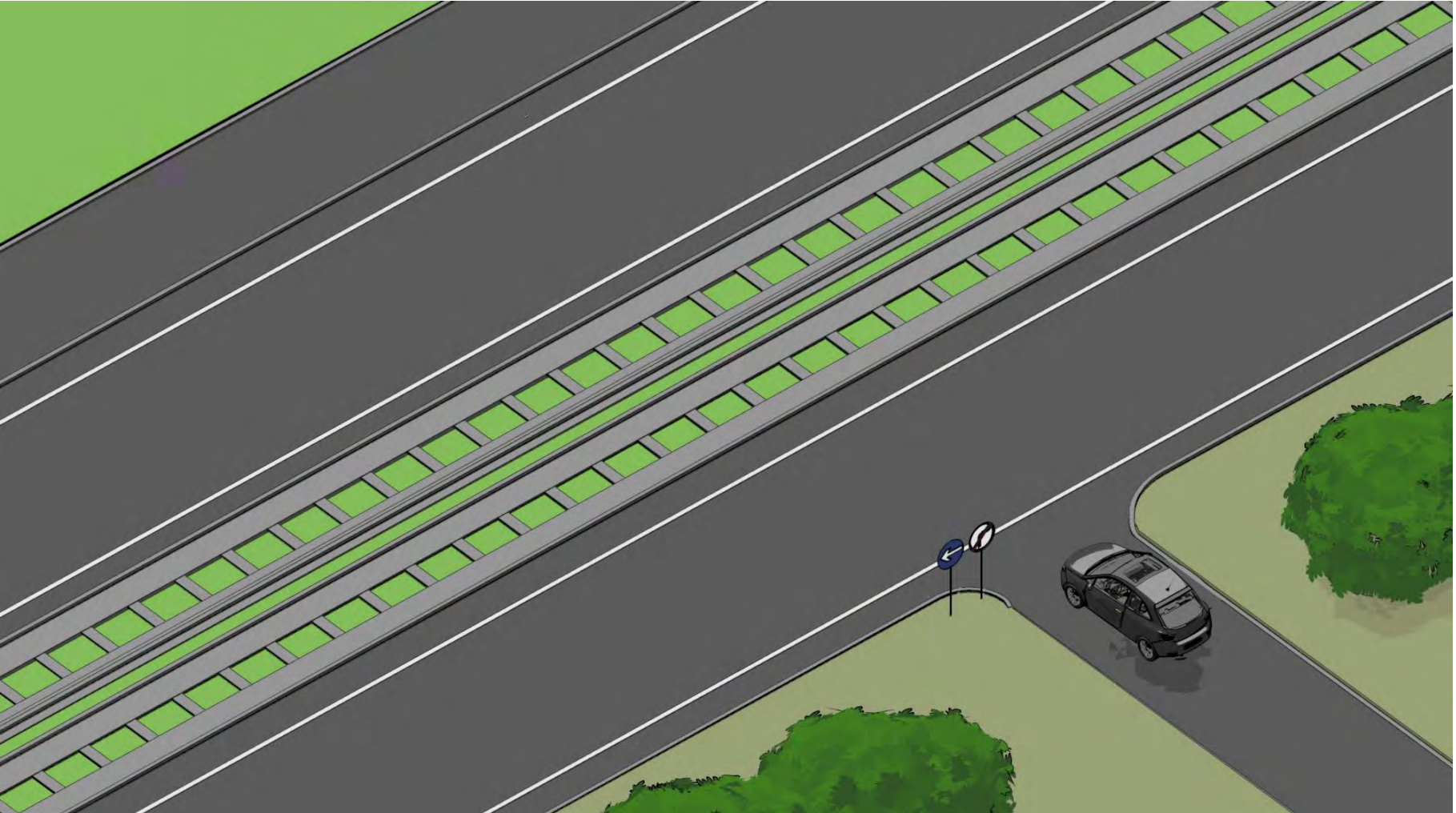
# A1303 – Journey Times



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# A1303 – Journey Times





# A1303 – Journey Times



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Option A/B/C – Split, south & north busway



Option D – Central busway



Option 3a

## A1303 – Construction Cost Estimates

Option	Cost
Option A – Split	£37,865,250
Option B - South	£39,649,680
Option C - North	£39,618,480
Option D - Central	£41,712,880
Route 3a	£26,044,954

# A1303 – Construction Cost Estimates - Services

Option 3a	A1303
Cambridge Water	Cambridge Water
Anglian Water	National Grid
UKPN	Virgin Media
	Vodaphone
	UKPN
	BT
	Anglian Water

## A1303 – Summary

- All options outside the highway boundary
- Central Busway better bus journeys, more expensive, buildability
- Split busway affects all accesses, disruption during construction
- Busway on north/south affect half of the accesses, easiest to construct, cheapest
- All options considerably more expensive than 3a
- Safety issues
- Increased disruption during construction