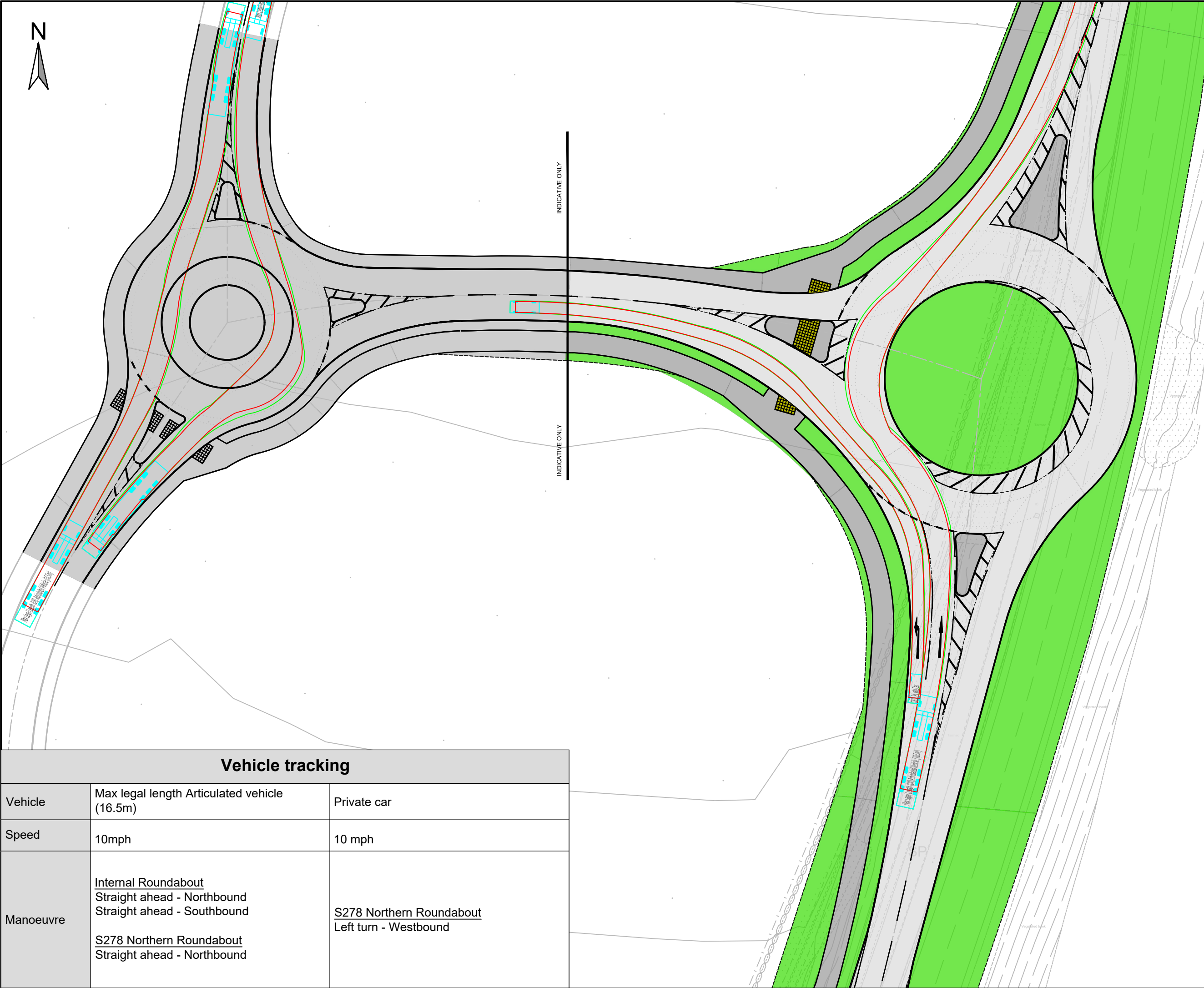
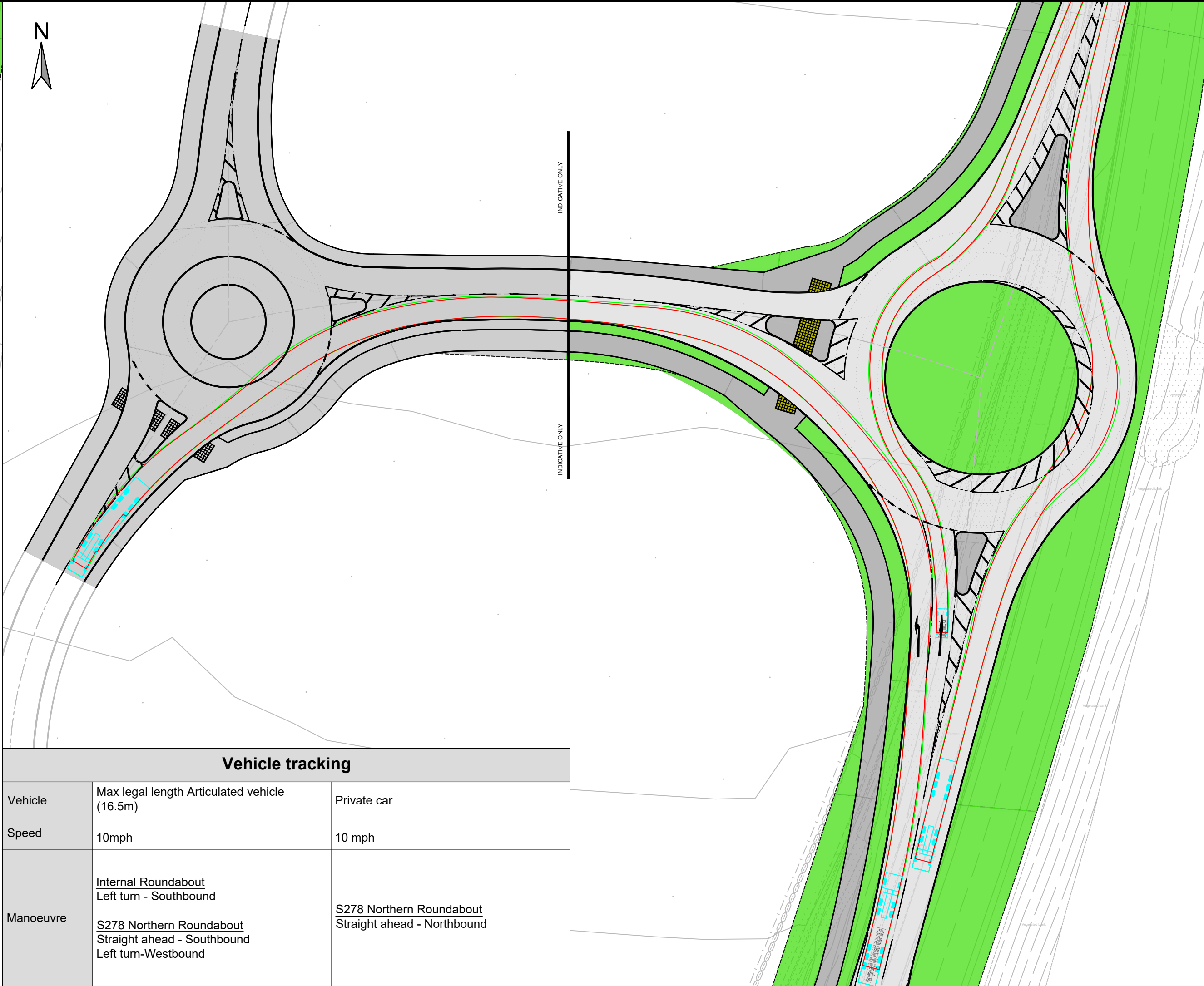
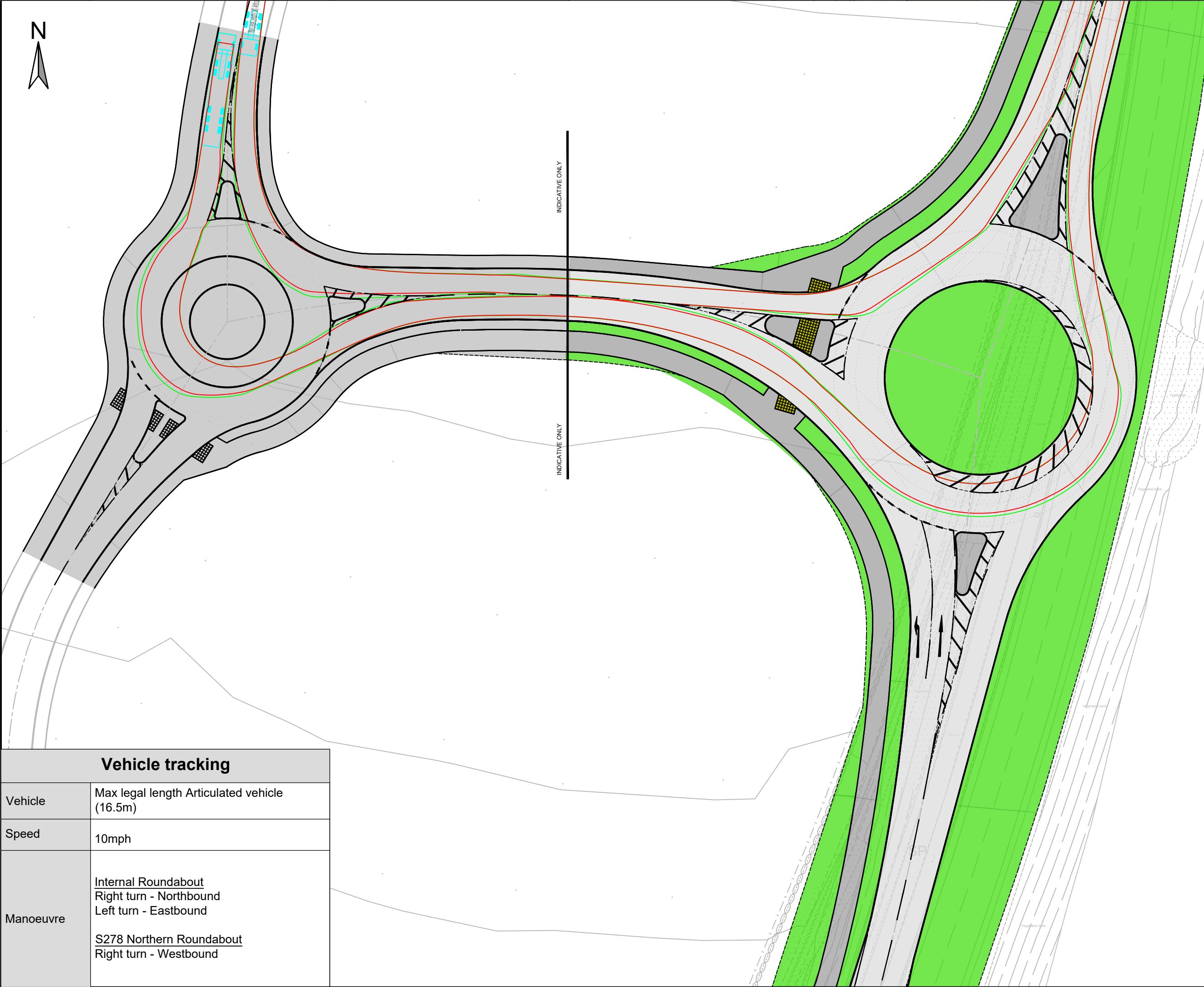




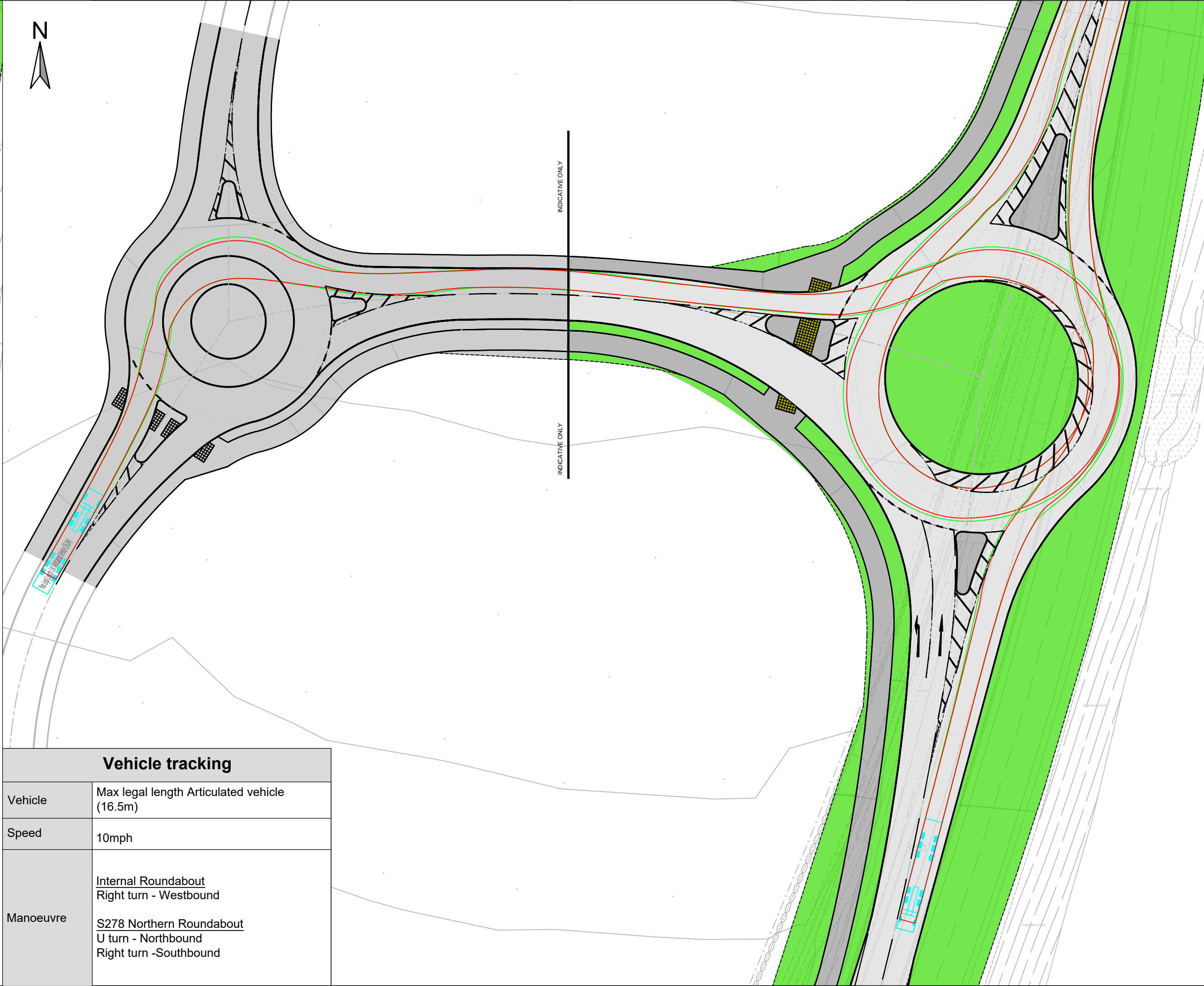
Vehicle tracking		
Vehicle	Max legal length Articulated vehicle (16.5m)	Private car
Speed	10mph	10 mph
Manoeuvre	Internal Roundabout Straight ahead - Northbound Straight ahead - Southbound S278 Northern Roundabout Straight ahead - Northbound	S278 Northern Roundabout Left turn - Westbound



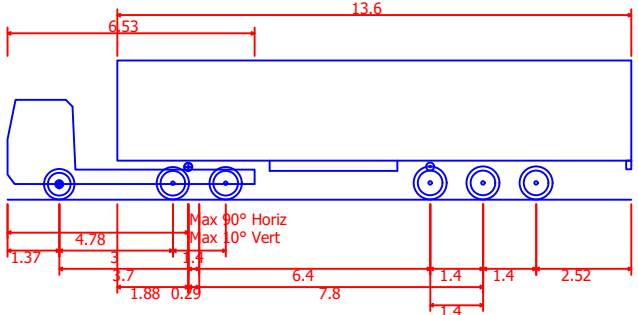
Vehicle tracking		
Vehicle	Max legal length Articulated vehicle (16.5m)	Private car
Speed	10mph	10 mph
Manoeuvre	Internal Roundabout Left turn - Southbound S278 Northern Roundabout Straight ahead - Southbound Left turn-Westbound	S278 Northern Roundabout Straight ahead - Northbound



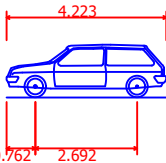
Vehicle tracking	
Vehicle	Max legal length Articulated vehicle (16.5m)
Speed	10mph
Manoeuvre	Internal Roundabout Right turn - Northbound Left turn - Eastbound S278 Northern Roundabout Right turn - Westbound



Vehicle tracking	
Vehicle	Max legal length Articulated vehicle (16.5m)
Speed	10mph
Manoeuvre	Internal Roundabout Right turn - Westbound S278 Northern Roundabout U turn - Northbound Right turn -Southbound



Max Legal Length (UK) Articulated Vehicle (16.5m)
Overall Length 16.500m
Overall Width 2.550m
Overall Body Height 3.681m
Min Body Ground Clearance 0.411m
Max Track Width 2.500m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 6.530m



DB32 Private Car
Overall Length 4.223m
Overall Width 1.715m
Overall Body Height 1.392m
Min Body Ground Clearance 0.233m
Max Track Width 1.629m
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 5.780m

Schedule of Changes

Last Rev.:	P03
Ref.	Description
1	DESIGN LAYOUT AMENDED

PRELIMINARY ISSUE

P04	SEE SCHEDULE OF CHANGES	11.10.2023	NM	IF	MR				
P03	SEE SCHEDULE OF CHANGES	03.07.2023	NM	IF	MR				
P02	SEE SCHEDULE OF CHANGES	30.06.2023	NM	IF	MR				
P01	PRELIMINARY FIRST ISSUE	01.03.2023	RN	IF	MR				
Rev.	Description	Date							

Document Control

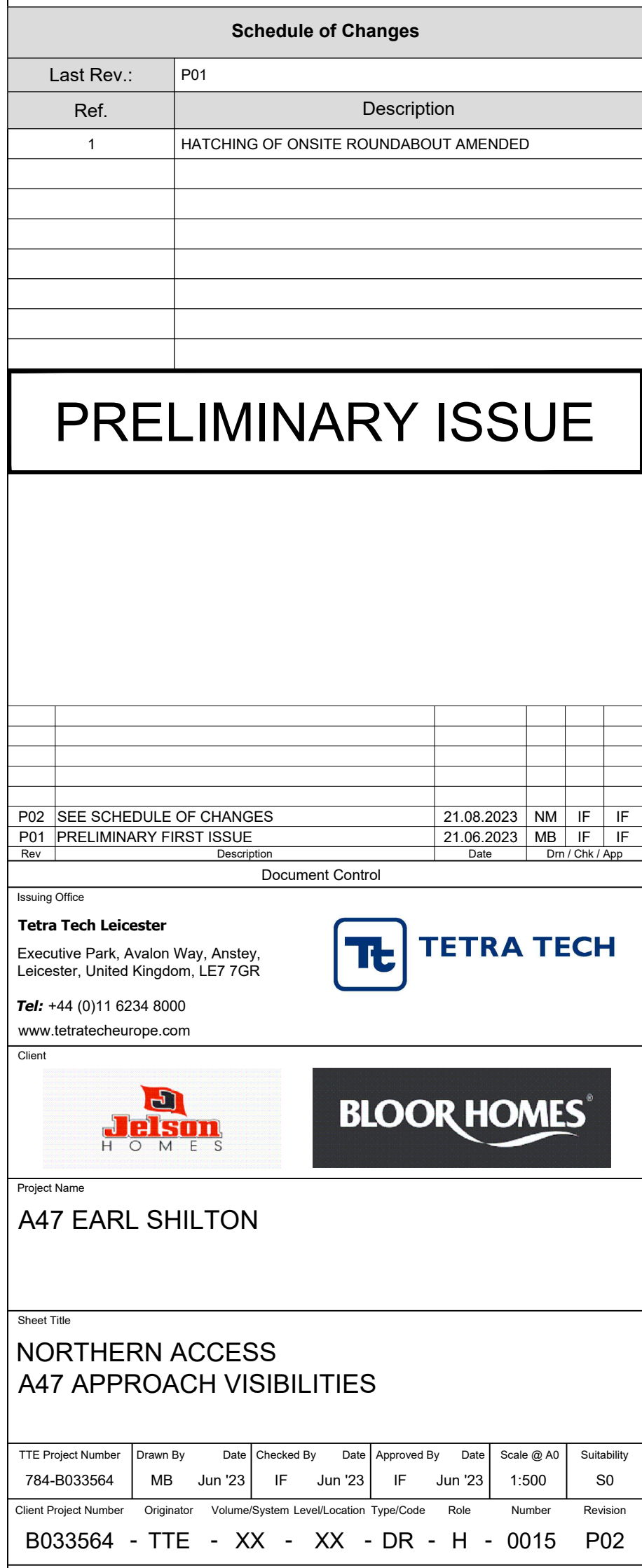
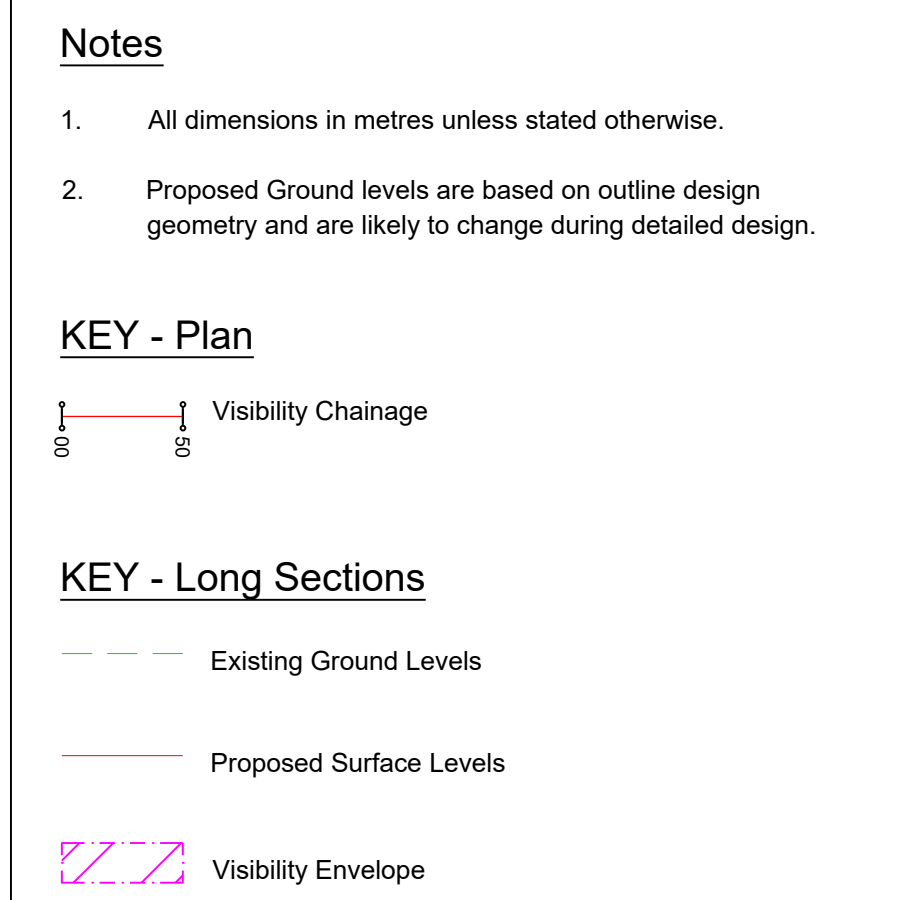
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Tetra Tech Leicester
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Leicester, United Kingdom, LE7 7GR
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Project Name
A47 EARL SHILTON

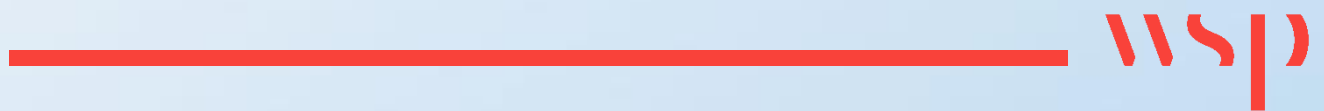
Sheet Title
**NORTHERN ACCESS
VEHICULAR TRACKING**

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A1	Suitability
784-B033564	NM	Jun'23	IF	Jun'23	MR	Jun'23	As Shown	S0
Client Project Number	Originator	Volume/System Level/Location	Type/Code	Role	Number	Revision		
B033564	- TTE	- XX	- XX	- DR	- H	- 0014	P04	



Appendix D

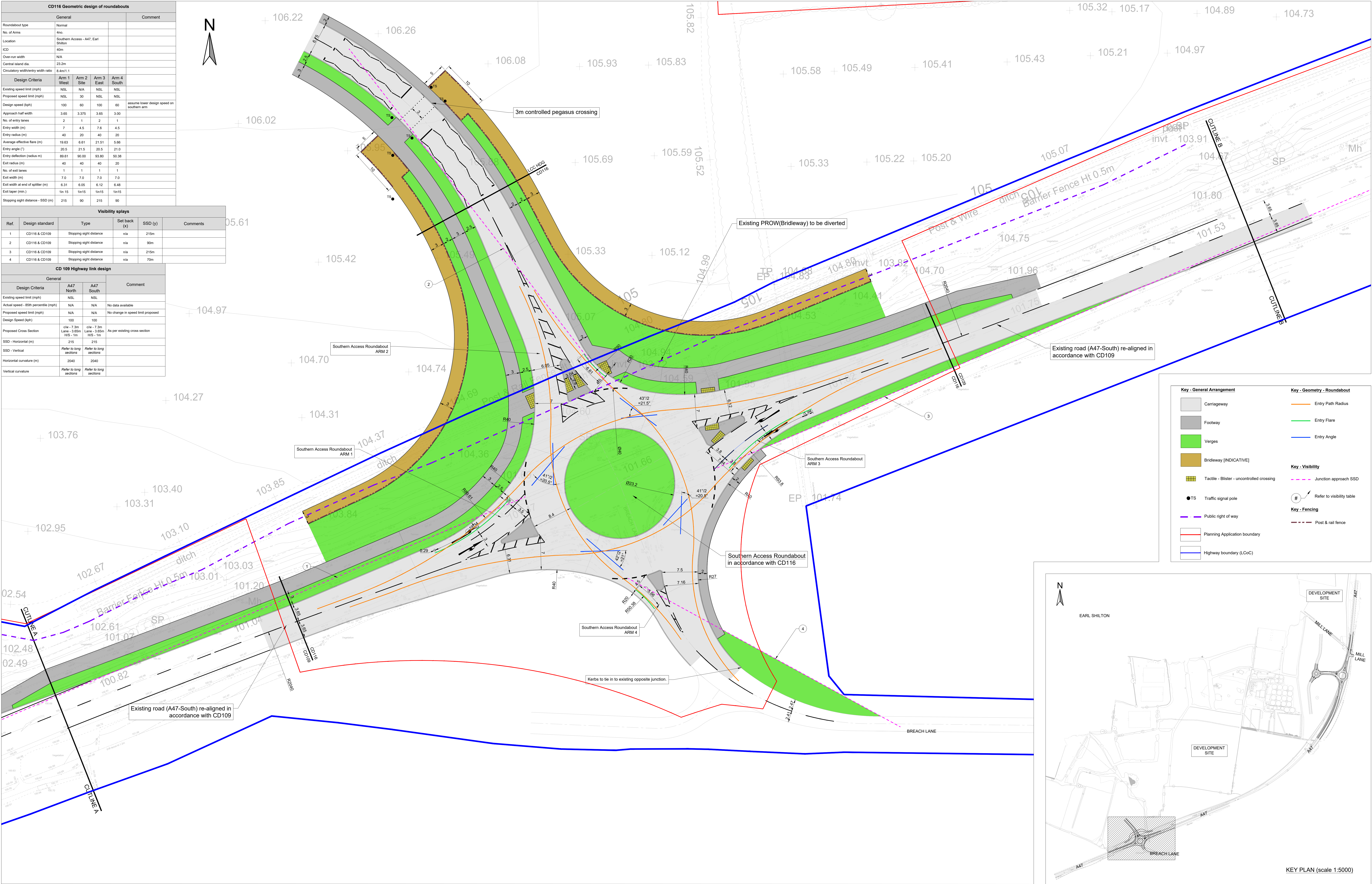
A47 SOUTHERN ACCESS ROUNDAABOUT



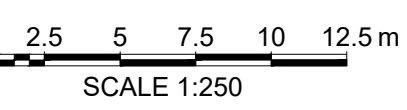
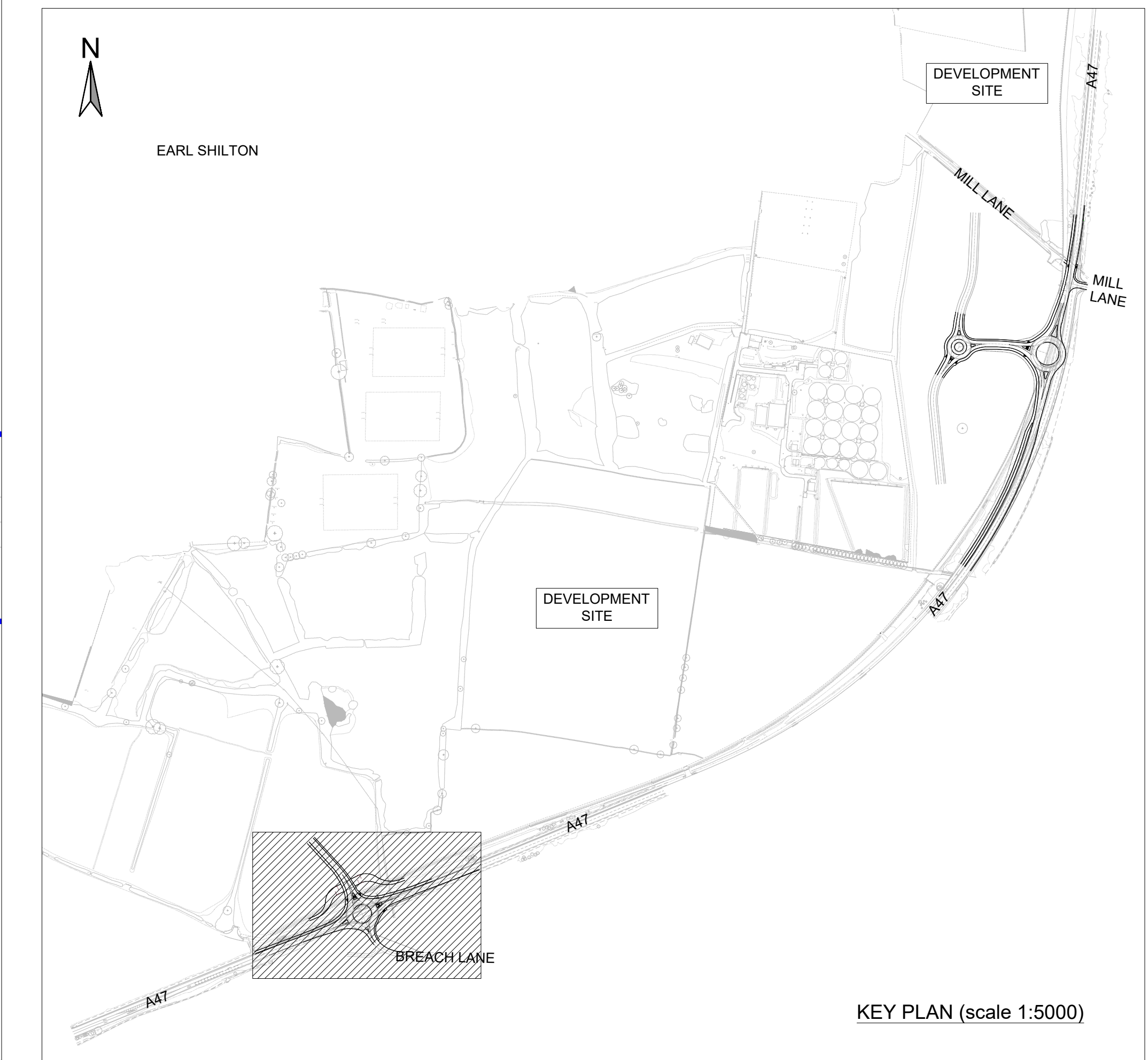
CD116 Geometric design of roundabouts					
General					Comment
Roundabout type	Normal				
No. of Arms	4no.				
Location	Southern Access - A47, Earl Shilton				
ICD	40m				
Over-run width	N/A				
Central island dia.	23.2m				
Circulatory width/entry width ratio	8.4m/1.1				
Design Criteria	Arm 1 West	Arm 2 Site	Arm 3 East	Arm 4 South	
Existing speed limit (mph)	NSL	N/A	NSL	NSL	
Proposed speed limit (mph)	NSL	30	NSL	NSL	
Design speed (kph)	100	60	100	60	assume lower design speed on southern arm
Approach half width	3.65	3.375	3.65	3.00	
No. of entry lanes	2	1	2	1	
Entry width (m)	7	4.5	7.6	4.5	
Entry radius (m)	40	20	40	20	
Average effective flare (m)	19.63	6.61	21.51	5.66	
Entry angle (°)	20.5	21.5	20.5	21.0	
Entry deflection (radius m)	89.61	90.00	93.80	50.38	
Exit radius (m)	40	40	40	20	
No. of exit lanes	1	1	1	1	
Exit width (m)	7.0	7.0	7.0	7.0	
Exit width at end of splitter (m)	6.31	6.05	6.12	6.48	
Exit taper (min.)	1in15	1in15	1in15	1in15	
Stopping sight distance - SSD (m)	215	90	215	90	

Visibility splays					
Ref.	Design standard	Type	Set back (m)	SSD (y)	Comments
1	CD116 & CD109	Stopping sight distance	n/a	215m	
2	CD116 & CD109	Stopping sight distance	n/a	90m	
3	CD116 & CD109	Stopping sight distance	n/a	215m	
4	CD116 & CD109	Stopping sight distance	n/a	70m	

CD 109 Highway link design			
General			Comment
Design Criteria	A47 North	A47 South	
Existing speed limit (mph)	NSL	NSL	
Actual speed - 85th percentile (mph)	N/A	N/A	No data available
Proposed speed limit (mph)	N/A	N/A	No change in speed limit proposed
Design Speed (kph)	100	100	
Proposed Cross Section	chw - 7.3m Lane - 3.65m HIS - 1m	chw - 7.3m Lane - 3.65m HIS - 1m	As per existing cross section
SSD - Horizontal (m)	215	215	
SSD - Vertical	Refer to long sections	Refer to long sections	
Horizontal curvature (m)	2040	2040	
Vertical curvature	Refer to long sections	Refer to long sections	



Key - General Arrangement		Key - Geometry - Roundabout	
	Carriageway		Entry Path Radius
	Footway		Entry Flare
	Verges		Entry Angle
	Bridleway (INDICATIVE)		
	Tactile - Blister - uncontrolled crossing		
	TS Traffic signal pole		Junction approach SSD
	Public right of way		Refer to visibility table
	Planning Application boundary		Post & rail fence
	Highway boundary (LCoC)		



PRELIMINARY ISSUE

Client		Project Name		Issuing Office	
Jelson HOMES		A47 EARL SHILTON		Tetra Tech Leicester	
BLOOR HOMES				Executive Park, Anstey Way, Anstey, Leicester, United Kingdom, LE17 7GR	
				Tel: +44 (0)115 8234 8000	
				www.tetratech.co.uk	
Revision		Sheet Title		TETRA TECH	
INDICATIVE PEGASUS CROSSING ADDED AND LAND DESTINATIONS		SOUTHERN ACCESS PRELIMINARY LAYOUT SHEET 1			
ADDED ON WESTERN APPROACH					
HYDRAULIC AND PLANNING APPLICATION BOUNDARIES ADDED					
PROPOSED PEGASUS CROSSING ADDED					
ADDED ON EASTERN APPROACH					
ADDED ON SOUTHERN APPROACH					
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