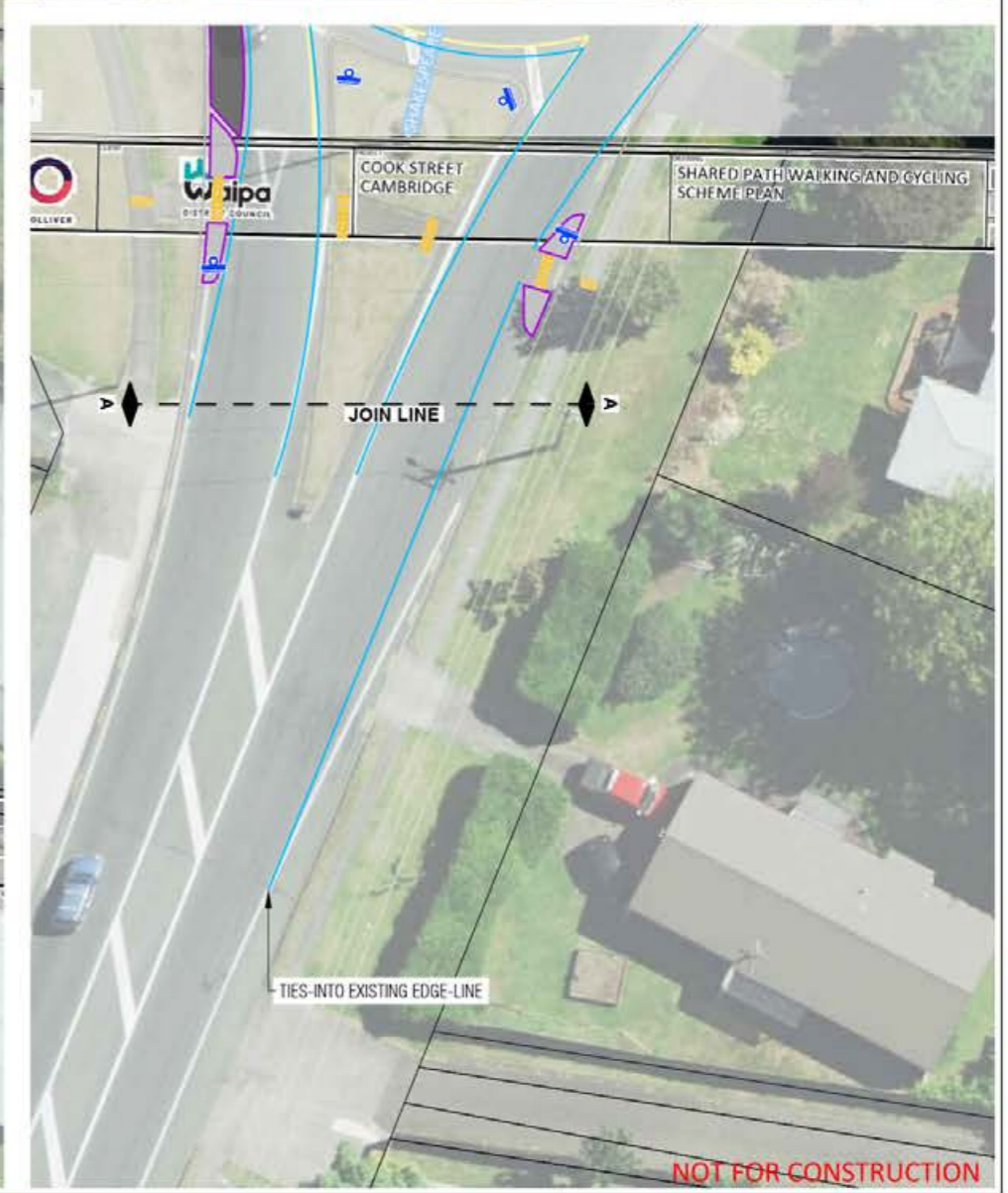
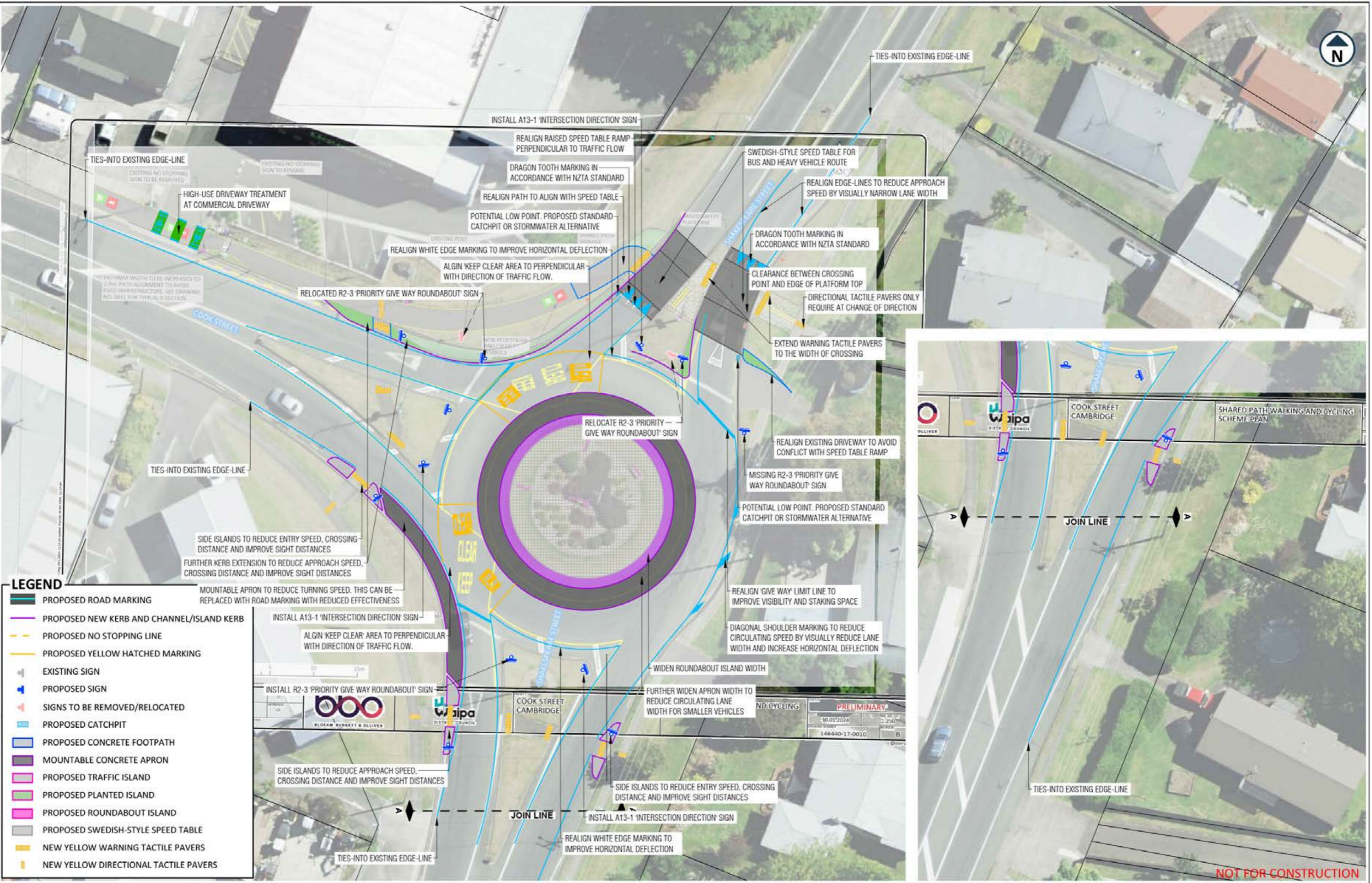


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ORIGINAL SIZE A1



- LEGEND**
- PROPOSED ROAD MARKING
 - PROPOSED NEW KERB AND CHANNEL/ISLAND KERB
 - PROPOSED NO STOPPING LINE
 - PROPOSED YELLOW HATCHED MARKING
 - EXISTING SIGN
 - PROPOSED SIGN
 - SIGNS TO BE REMOVED/RELOCATED
 - PROPOSED CATCHPIT
 - PROPOSED CONCRETE FOOTPATH
 - MOUNTABLE CONCRETE APRON
 - PROPOSED TRAFFIC ISLAND
 - PROPOSED PLANTED ISLAND
 - PROPOSED ROUNDABOUT ISLAND
 - PROPOSED SWEDISH-STYLE SPEED TABLE
 - NEW YELLOW WARNING TACTILE PAVERS
 - NEW YELLOW DIRECTIONAL TACTILE PAVERS

MOUNTABLE APRON TO REDUCE TURNING SPEED. THIS CAN BE REPLACED WITH ROAD MARKING WITH REDUCED EFFECTIVENESS

INSTALL A13-1 'INTERSECTION DIRECTION' SIGN

ALIGN 'KEEP CLEAR' AREA TO PERPENDICULAR WITH DIRECTION OF TRAFFIC FLOW.

INSTALL R2-3 'PRIORITY GIVE WAY ROUNDABOUT' SIGN

COOK STREET CAMBRIDGE

SIDE ISLANDS TO REDUCE APPROACH SPEED, CROSSING DISTANCE AND IMPROVE SIGHT DISTANCES

TIES-INTO EXISTING EDGE-LINE

REALIGN RAISED SPEED TABLE RAMP PERPENDICULAR TO TRAFFIC FLOW

DRAGON TOOTH MARKING IN ACCORDANCE WITH NZTA STANDARD

REALIGN PATH TO ALIGN WITH SPEED TABLE

POTENTIAL LOW POINT. PROPOSED STANDARD CATCHPIT OR STORMWATER ALTERNATIVE

REALIGN WHITE EDGE MARKING TO IMPROVE HORIZONTAL DEFLECTION

ALIGN 'KEEP CLEAR' AREA TO PERPENDICULAR WITH DIRECTION OF TRAFFIC FLOW.

RELOCATED R2-3 PRIORITY GIVE WAY ROUNDABOUT SIGN

NEW PAVED AREA

REALIGN 'GIVE WAY' LIMIT LINE TO IMPROVE VISIBILITY AND STAKING SPACE

DIAGONAL SHOULDER MARKING TO REDUCE CIRCULATING SPEED BY VISUALLY REDUCE LANE WIDTH AND INCREASE HORIZONTAL DEFLECTION

WIDEN ROUNDABOUT ISLAND WIDTH

FURTHER WIDEN APRON WIDTH TO REDUCE CIRCULATING LANE WIDTH FOR SMALLER VEHICLES

NO CYCLING

PRELIMINARY

30.01.2024 1:250

146440-17-0010 B

SIDE ISLANDS TO REDUCE ENTRY SPEED, CROSSING DISTANCE AND IMPROVE SIGHT DISTANCES

SIDE ISLANDS TO REDUCE APPROACH SPEED, CROSSING DISTANCE AND IMPROVE SIGHT DISTANCES

INSTALL A13-1 'INTERSECTION DIRECTION' SIGN

REALIGN WHITE EDGE MARKING TO IMPROVE HORIZONTAL DEFLECTION

TIES-INTO EXISTING EDGE-LINE

TIES-INTO EXISTING EDGE-LINE

EXISTING NO STOPPING SIGN TO REMAIN

HIGH-USE DRIVEWAY TREATMENT AT COMMERCIAL DRIVEWAY

PATHWAY WIDTH TO BE INCREASED TO 2.5m. PATH ALIGNMENT TO AVOID ROAD INFRASTRUCTURE. SEE DRAWING NO. 0011 FOR TYPICAL SECTION

SWEDISH-STYLE SPEED TABLE FOR BUS AND HEAVY VEHICLE ROUTE

REALIGN EDGE-LINES TO REDUCE APPROACH SPEED BY VISUALLY NARROW LANE WIDTH

DRAGON TOOTH MARKING IN ACCORDANCE WITH NZTA STANDARD

CLEARANCE BETWEEN CROSSING POINT AND EDGE OF PLATFORM TOP

DIRECTIONAL TACTILE PAVERS ONLY REQUIRE AT CHANGE OF DIRECTION

EXTEND WARNING TACTILE PAVERS TO THE WIDTH OF CROSSING

REALIGN EXISTING DRIVEWAY TO AVOID CONFLICT WITH SPEED TABLE RAMP

MISSING R2-3 'PRIORITY GIVE WAY ROUNDABOUT' SIGN

POTENTIAL LOW POINT. PROPOSED STANDARD CATCHPIT OR STORMWATER ALTERNATIVE

REALIGN 'GIVE WAY' LIMIT LINE TO IMPROVE VISIBILITY AND STAKING SPACE

DIAGONAL SHOULDER MARKING TO REDUCE CIRCULATING SPEED BY VISUALLY REDUCE LANE WIDTH AND INCREASE HORIZONTAL DEFLECTION

WIDEN ROUNDABOUT ISLAND WIDTH

FURTHER WIDEN APRON WIDTH TO REDUCE CIRCULATING LANE WIDTH FOR SMALLER VEHICLES

NO CYCLING

PRELIMINARY

30.01.2024 1:250

146440-17-0010 B

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SIDE ISLANDS TO REDUCE APPROACH SPEED, CROSSING DISTANCE AND IMPROVE SIGHT DISTANCES

INSTALL A13-1 'INTERSECTION DIRECTION' SIGN

REALIGN WHITE EDGE MARKING TO IMPROVE HORIZONTAL DEFLECTION

TIES-INTO EXISTING EDGE-LINE

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED		

Waipā DISTRICT COUNCIL

SAFE SYSTEM SOLUTIONS

Safe System Solutions (NZ)
PO Box 34235, Birkenhead, Auckland 0746
☎ +64 20 4000 2314
✉ info@safesystemssolutions.co.nz

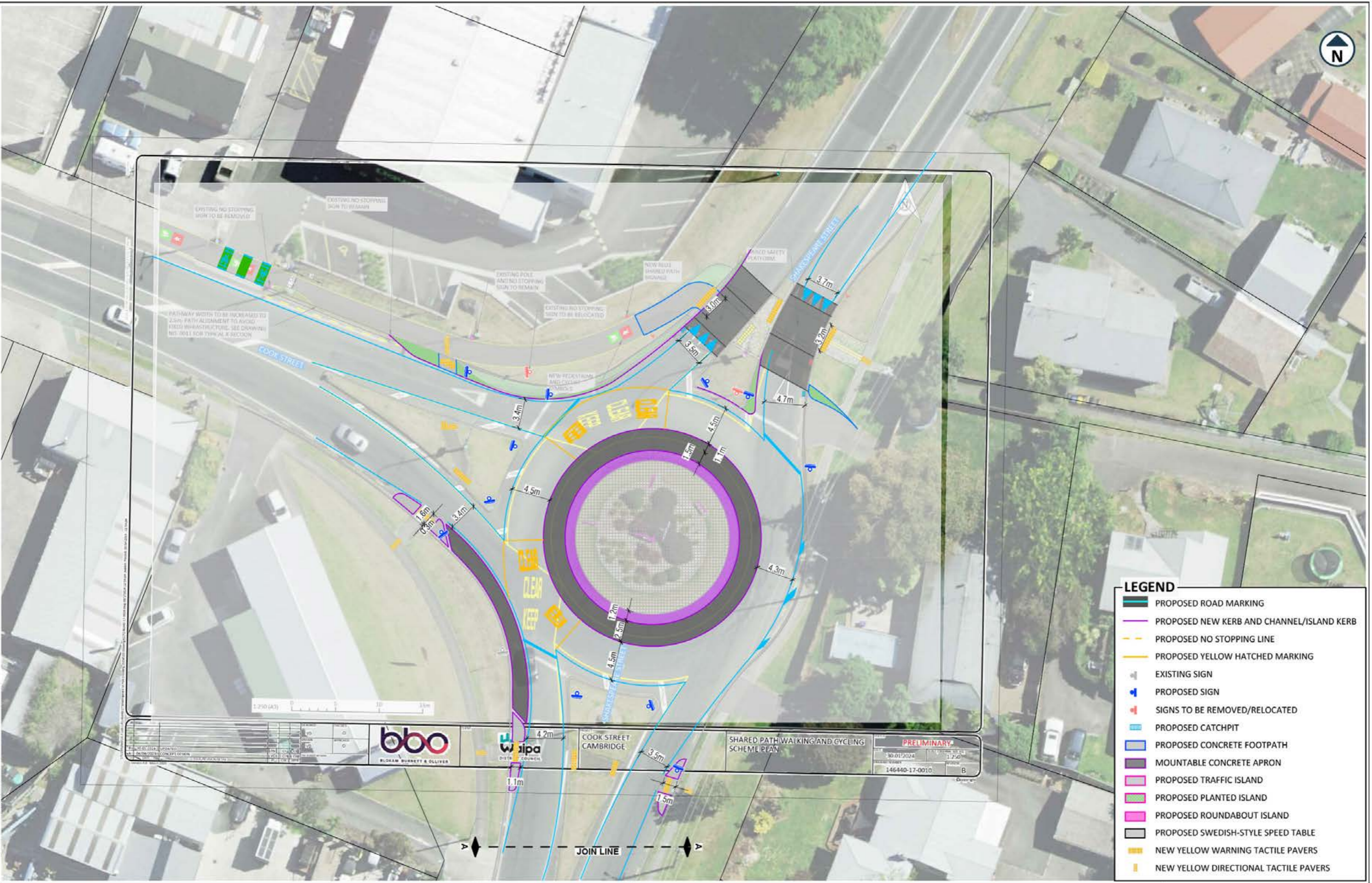
PROJECT TITLE	WAIPĀ DISTRICT COUNCIL SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW
DRAWING TITLE	GENERAL LAYOUT PLAN

STATUS	SKETCHES
PROJECT NO.	S20240137
A1 Scales	1:200
DRAWING NO.	S20240137_C020
REVISION	A

NOT FOR CONSTRUCTION

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ORIGINAL SIZE A1
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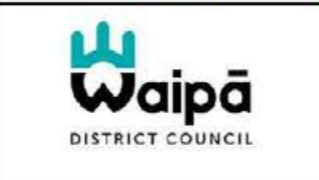


				PRELIMINARY 30.01.2024 1:200 146440-17-0010 B	
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LEGEND	
	PROPOSED ROAD MARKING
	PROPOSED NEW KERB AND CHANNEL/ISLAND KERB
	PROPOSED NO STOPPING LINE
	PROPOSED YELLOW HATCHED MARKING
	EXISTING SIGN
	PROPOSED SIGN
	SIGNS TO BE REMOVED/RELOCATED
	PROPOSED CATCHPIT
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	MOUNTABLE CONCRETE APRON
	PROPOSED TRAFFIC ISLAND
	PROPOSED PLANTED ISLAND
	PROPOSED ROUNDABOUT ISLAND
	PROPOSED SWEDISH-STYLE SPEED TABLE
	NEW YELLOW WARNING TACTILE PAVERS
	NEW YELLOW DIRECTIONAL TACTILE PAVERS

REVISION	DESCRIPTION	DATE
A	SAFETY AND DESIGN REVIEW	05/2024

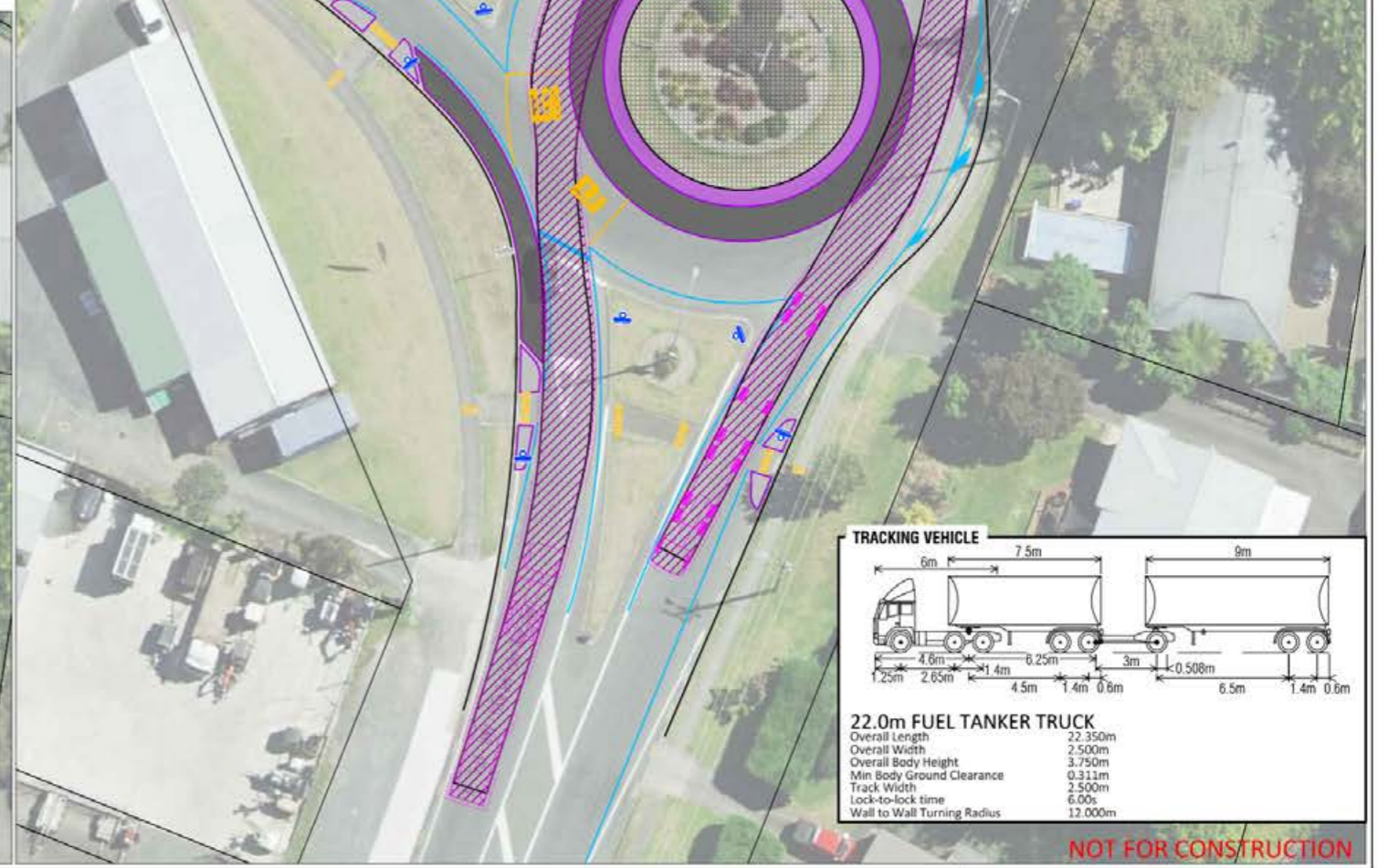
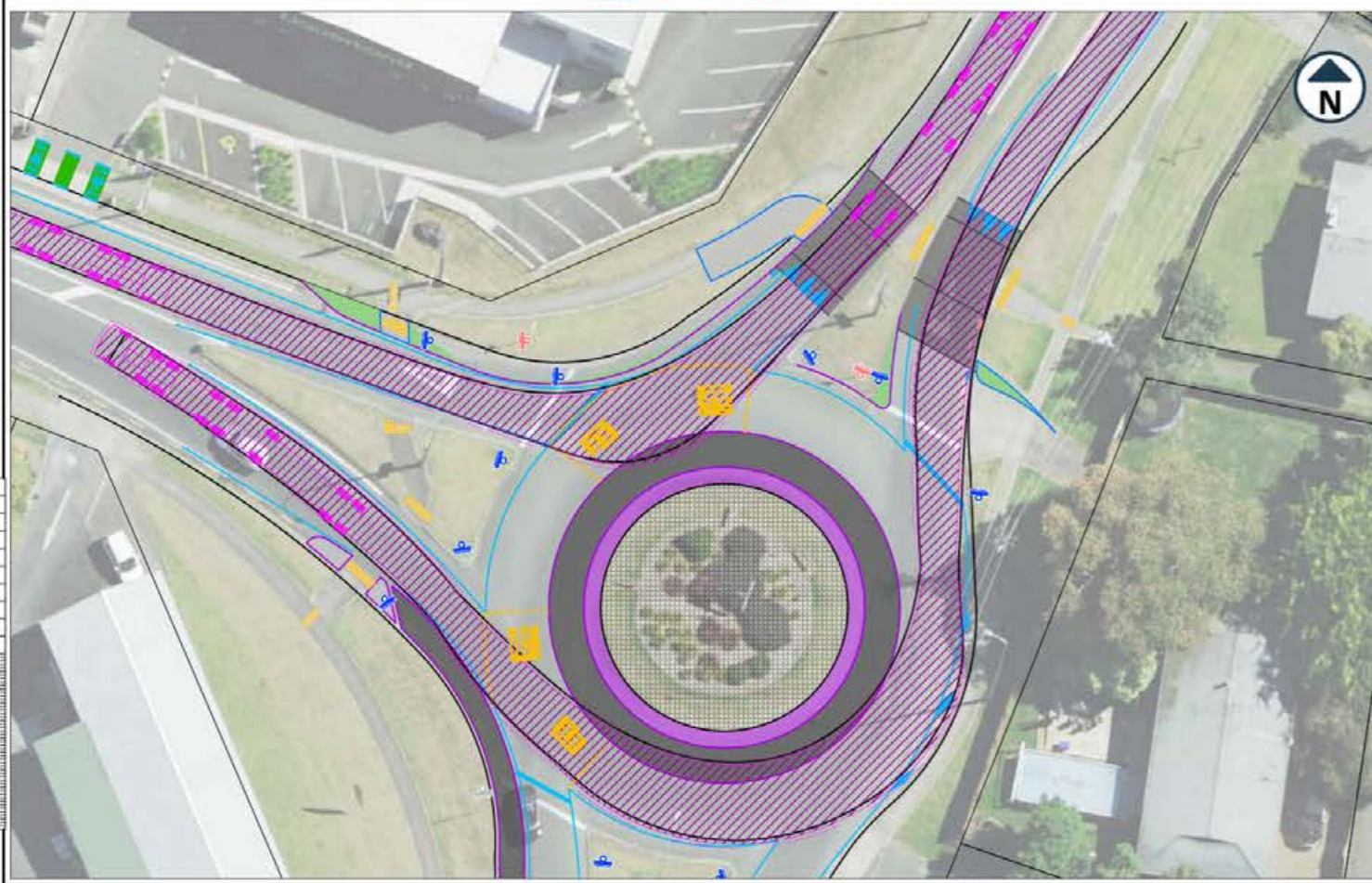
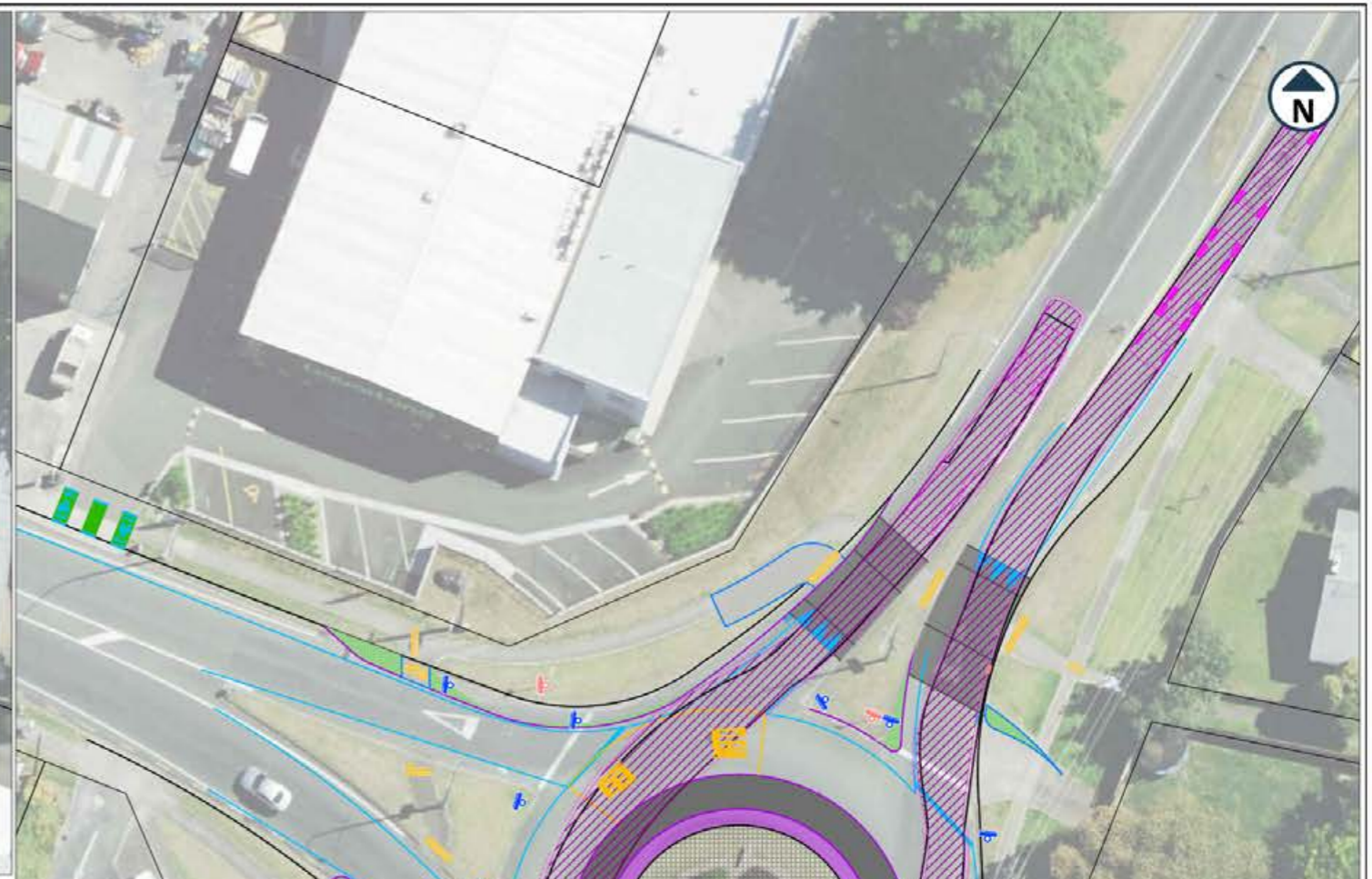
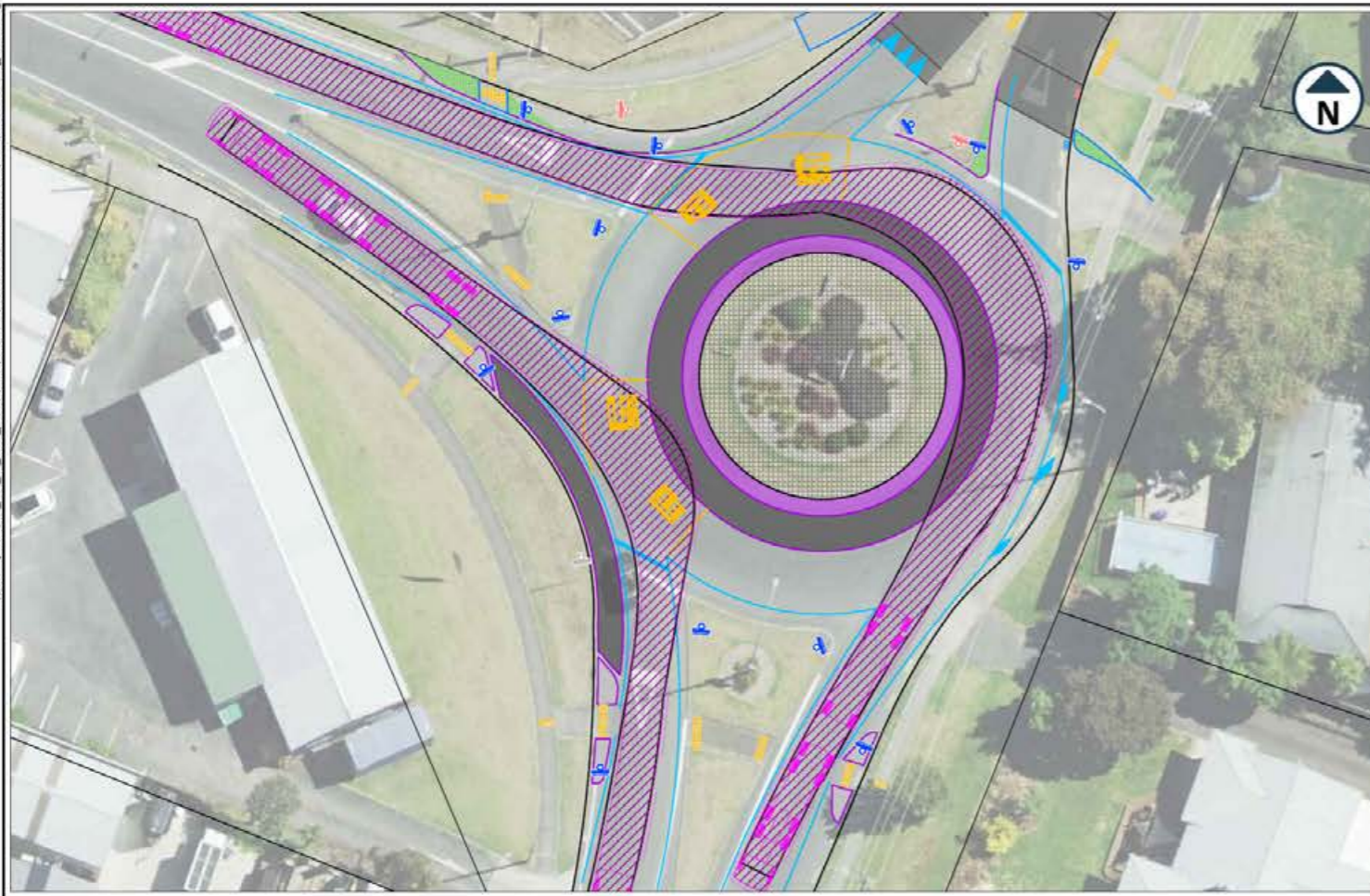
DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-



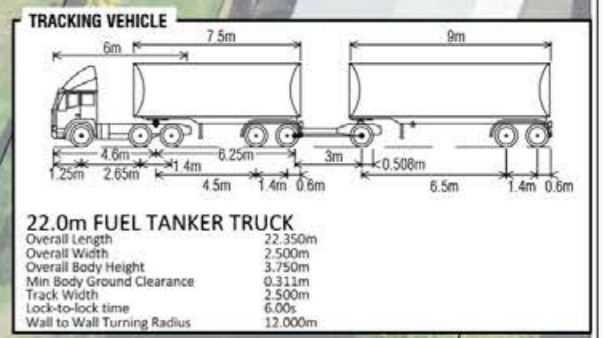
PROJECT TITLE	WAIPA DISTRICT COUNCIL SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW
DRAWING TITLE	KEY DIMENSIONS SHEET 1

STATUS	
SKETCHES	
PROJECT NO.	S20240137
DRAWING NO.	S20240137_C060
REVISION	A

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ORIGINAL SIZE A1
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NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	APPROVED	DATE
A	SAFETY AND DESIGN REVIEW	SP	05/2024

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-



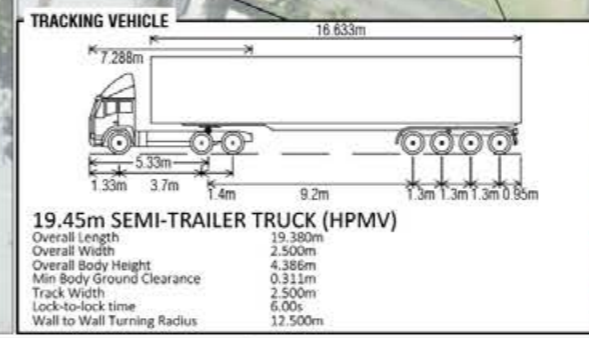
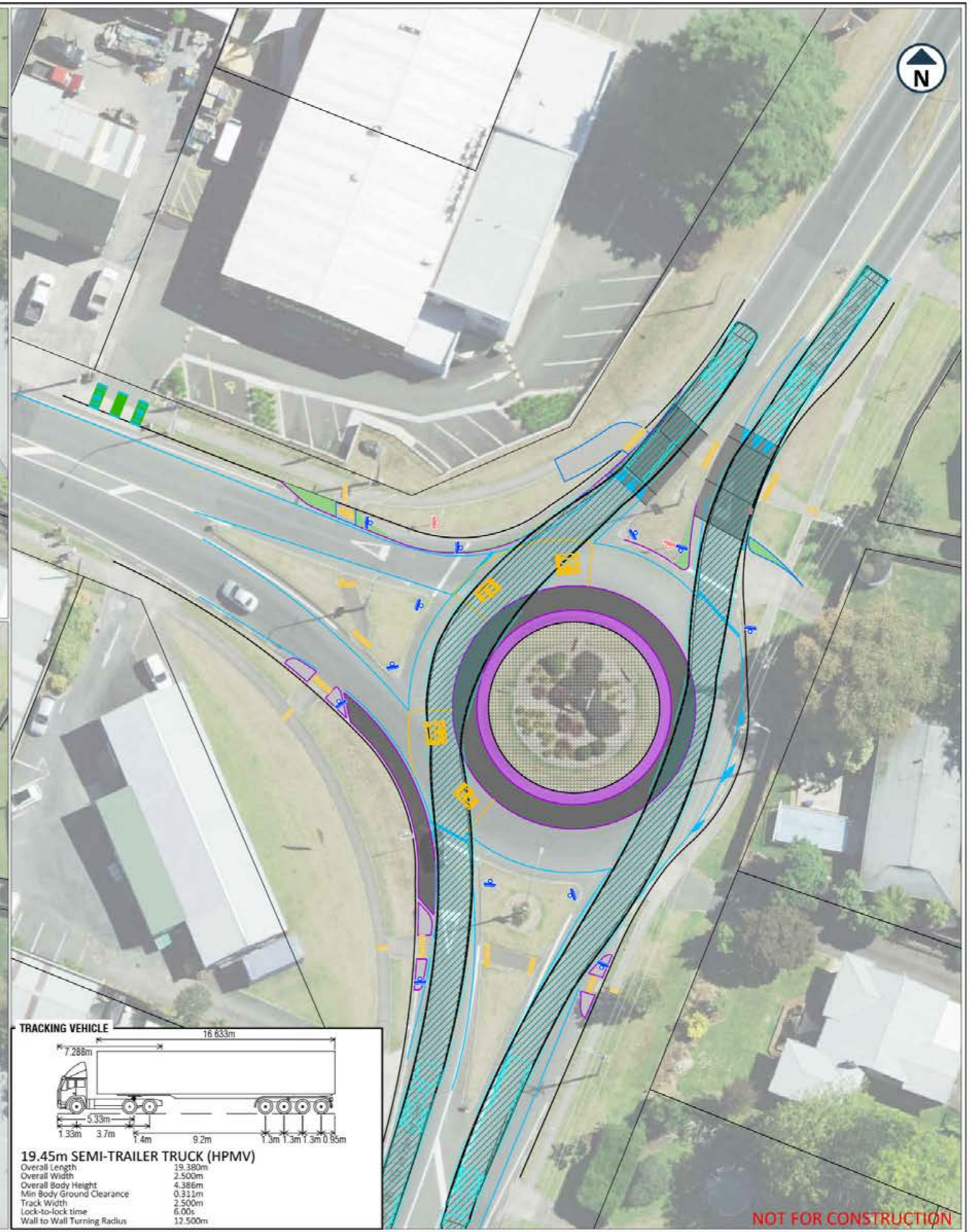
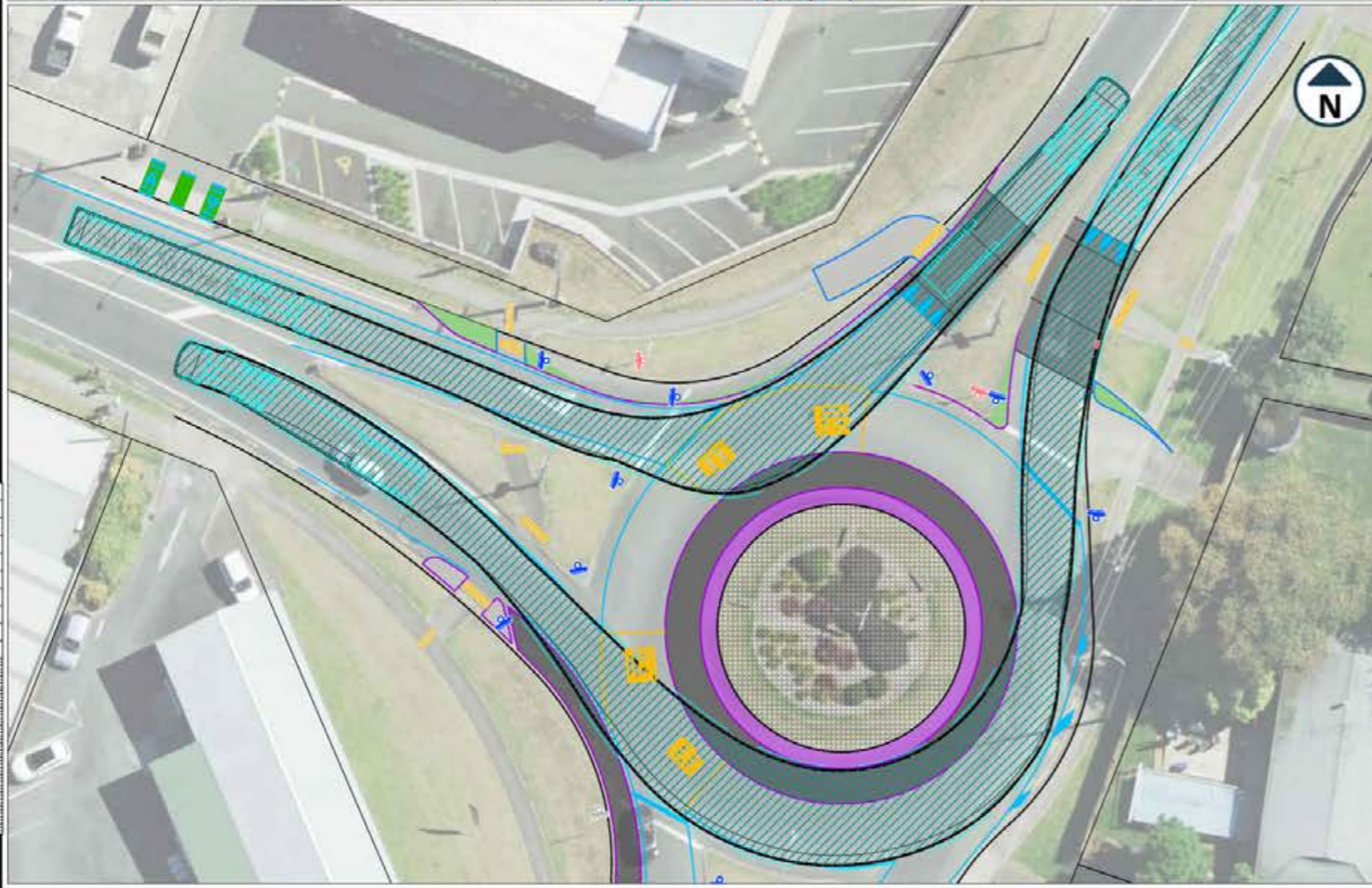
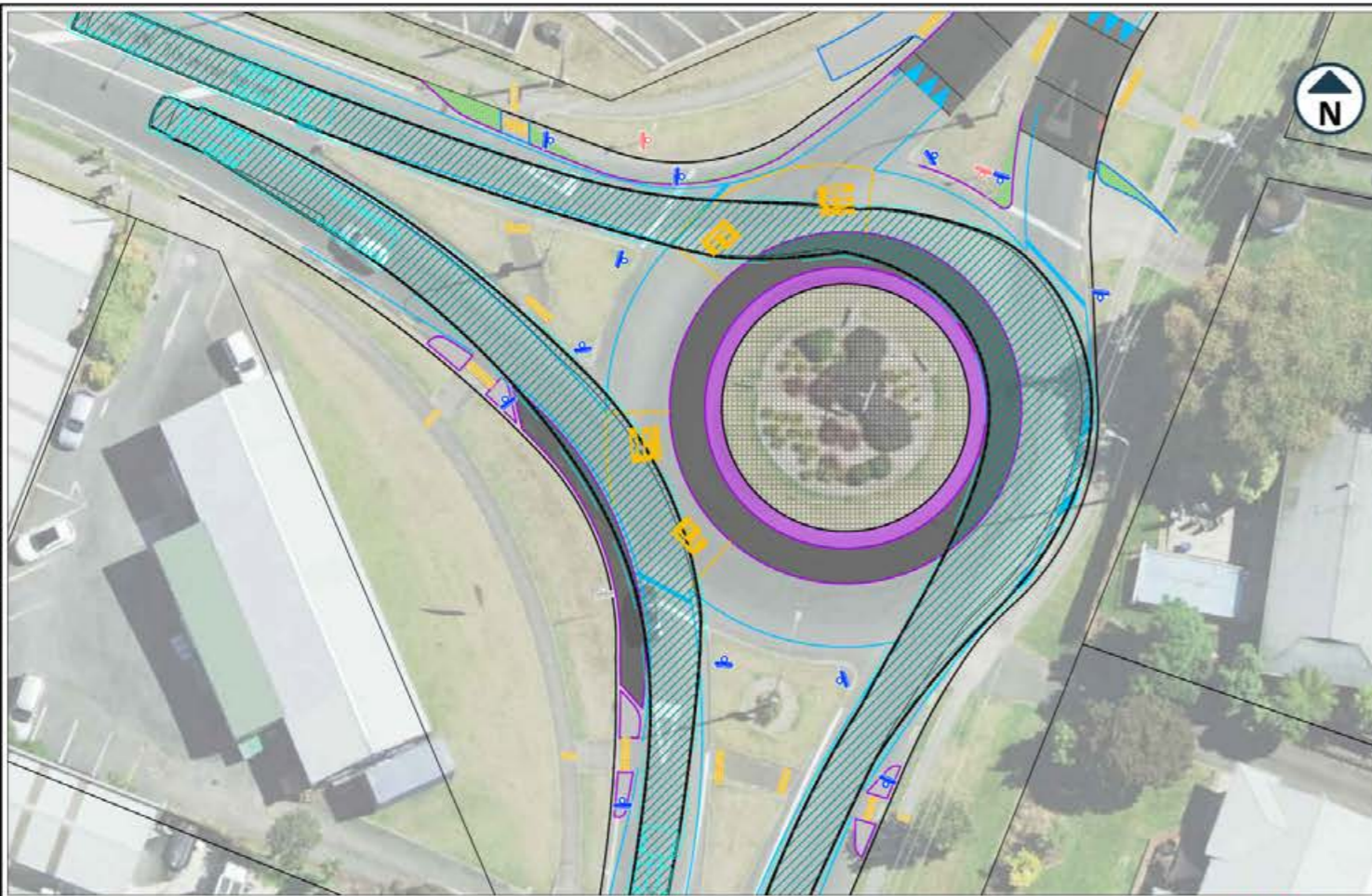
PROJECT TITLE
**WAIPA DISTRICT COUNCIL
 SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW**

DRAWING TITLE
VEHICLE TRACKING PLAN - 22m TRUCK AND TRAILER

STATUS	
SKETCHES	
A1 Scales	PROJECT NO. S20240137
DRAWING NO. S20240137_C090	REVISION A

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ORIGINAL SIZE A1
 0 10 20 30 40 50 60 70 80 90 100mm



NOT FOR CONSTRUCTION

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-

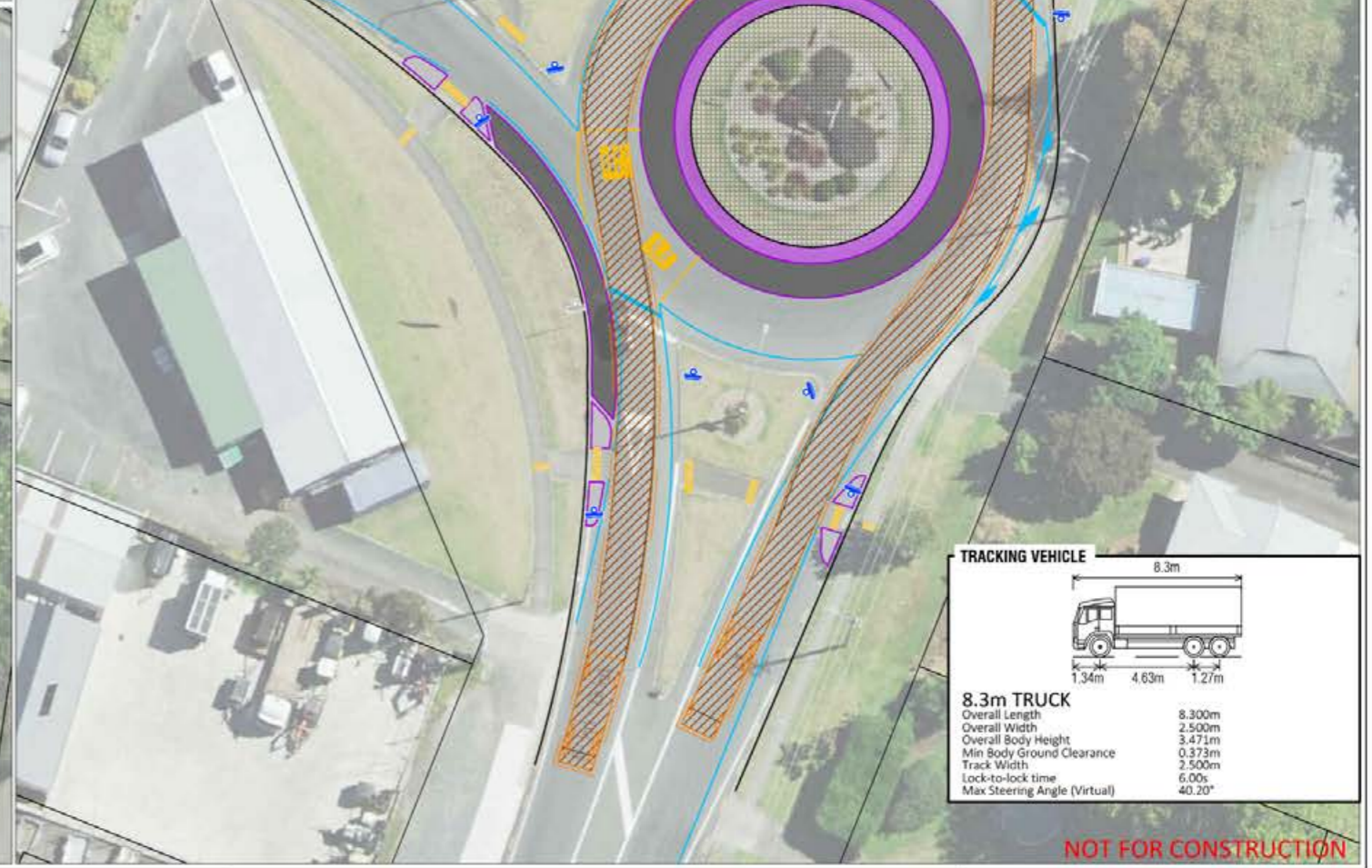
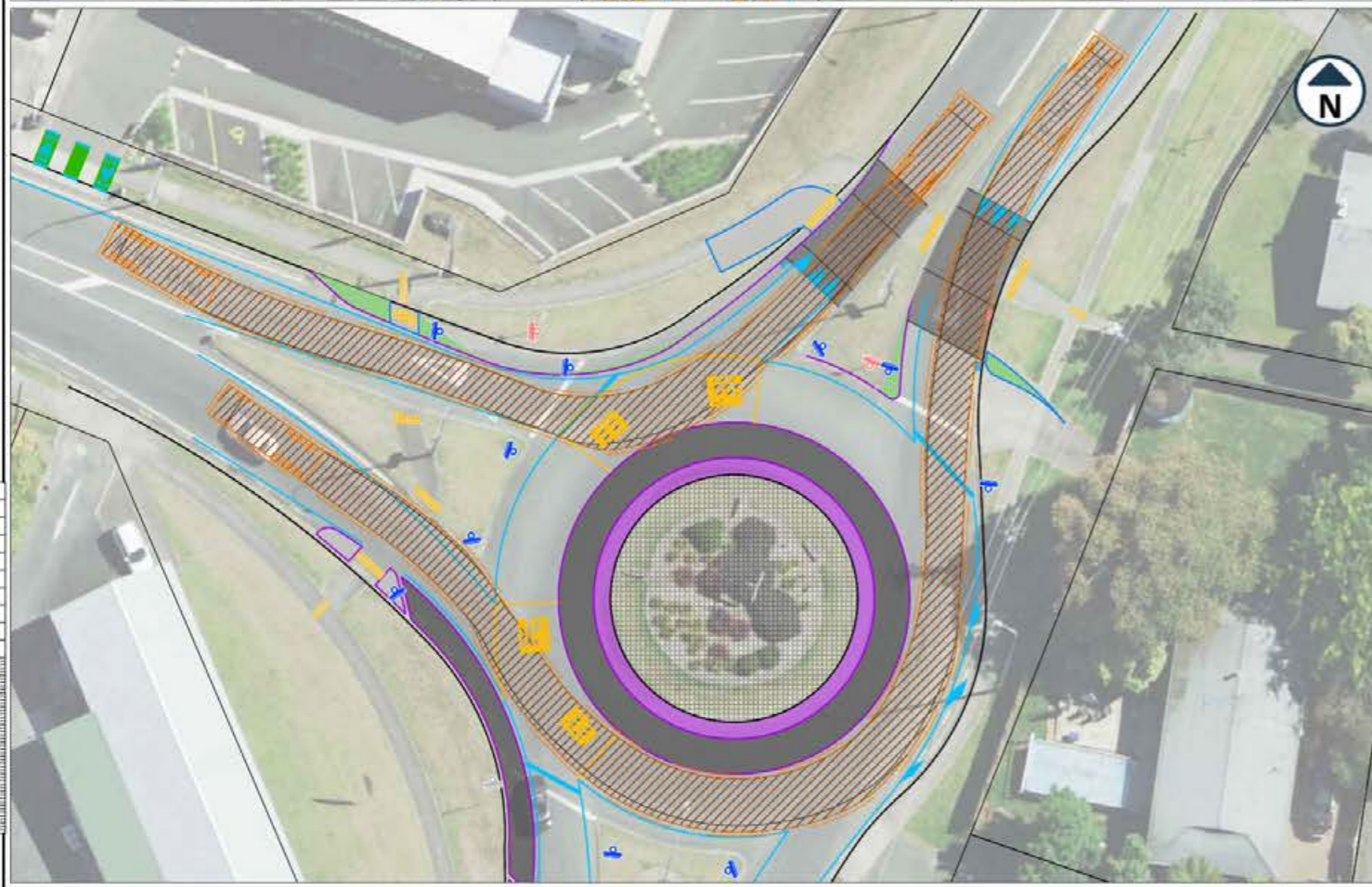
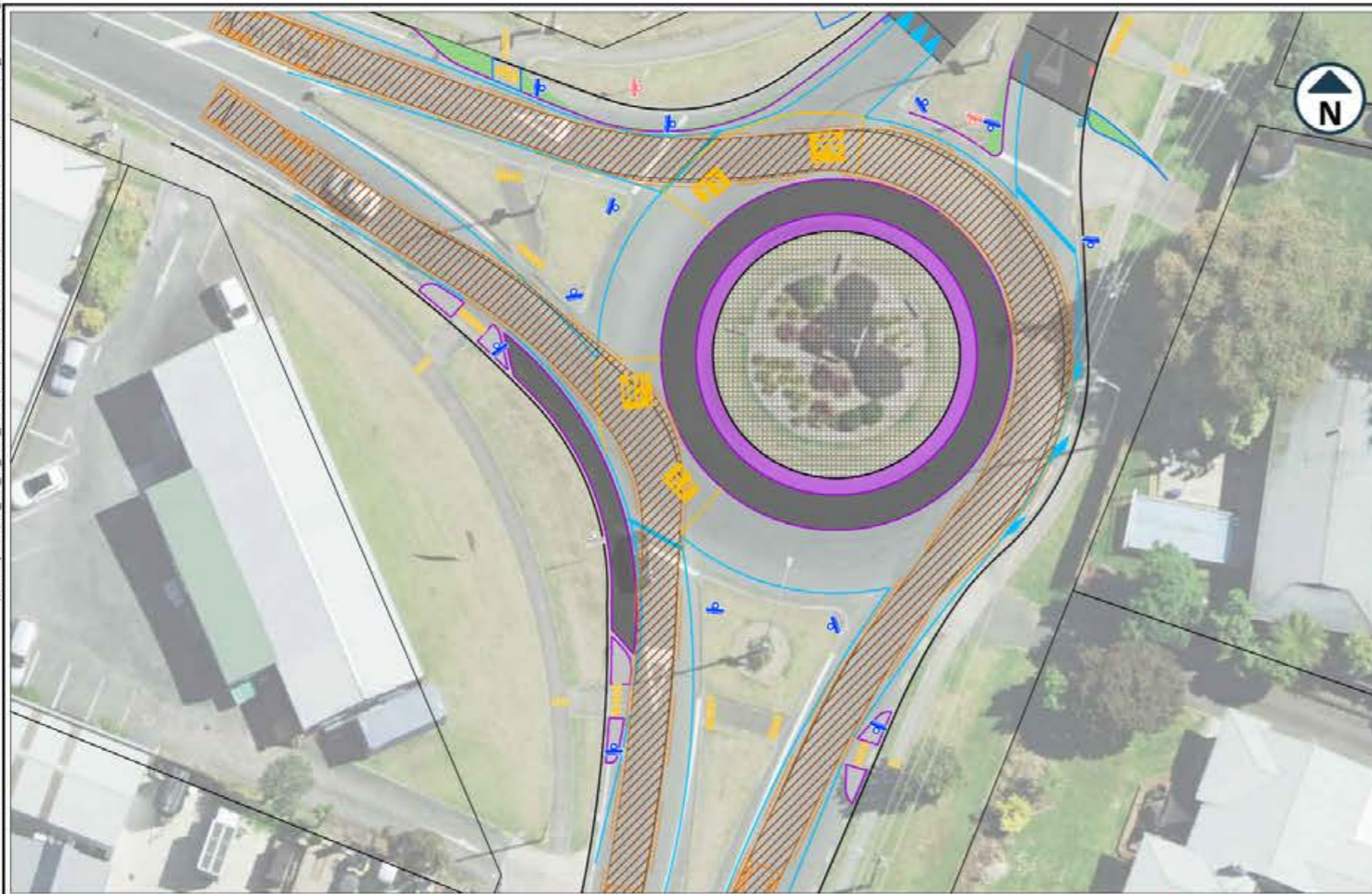


PROJECT TITLE
**WAIPA DISTRICT COUNCIL
 SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW**

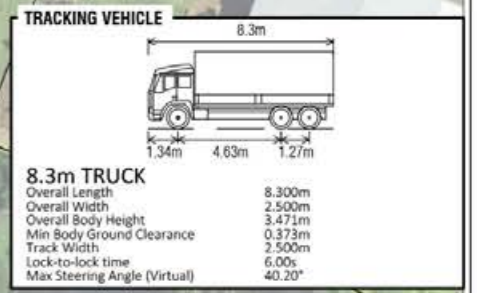
DRAWING TITLE
VEHICLE TRACKING PLAN - 19.45m SEMI-TRAILER

STATUS	SKETCHES	
	PROJECT NO.	S20240137
A1 Scales	1:200	
DRAWING NO.	S20240137_C091	REVISION
		A

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ORIGINAL SIZE A1
0 10 20 30 40 50 60 70 80 90 100mm



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	APPROVED	DATE
A	SAFETY AND DESIGN REVIEW	SP	05/2024

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-

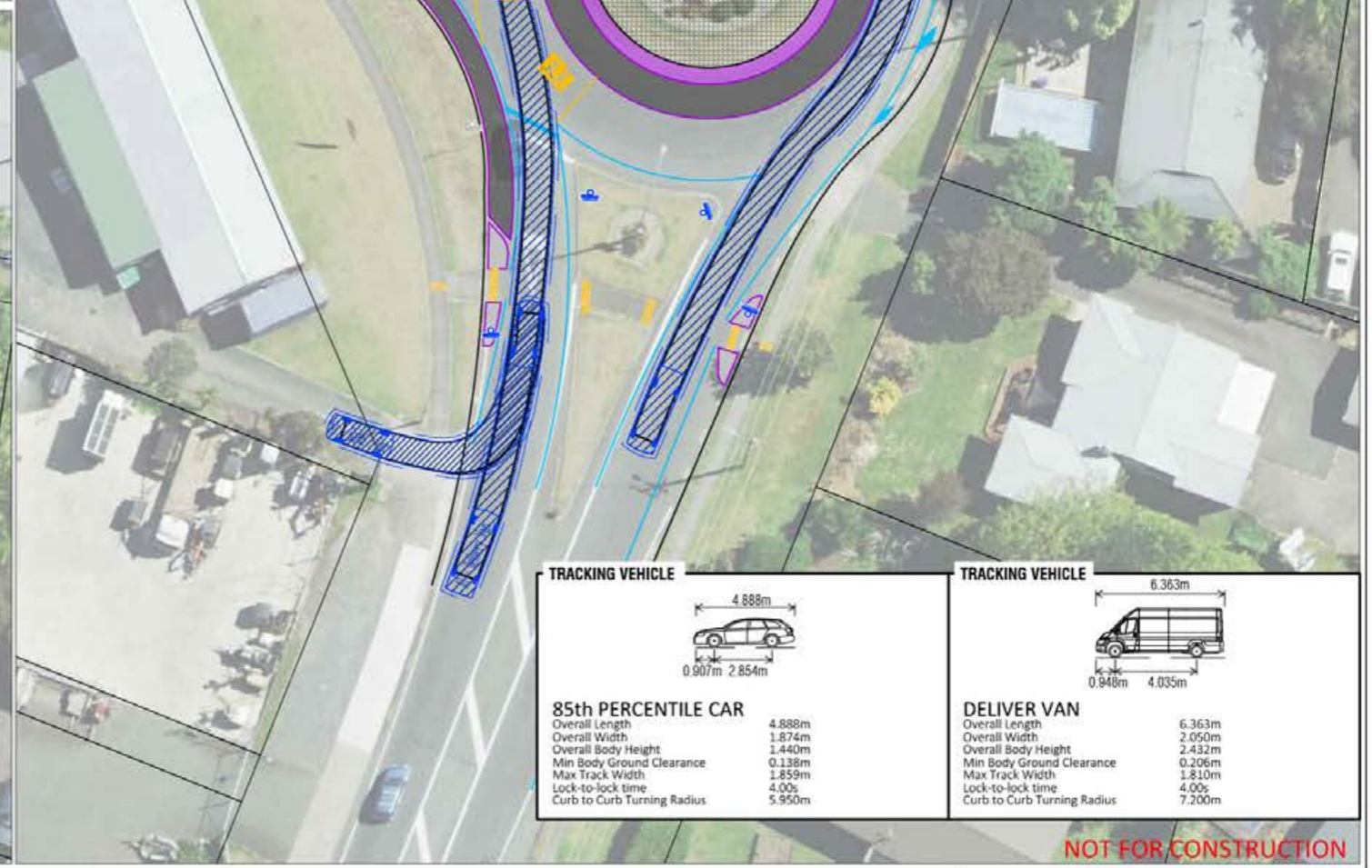
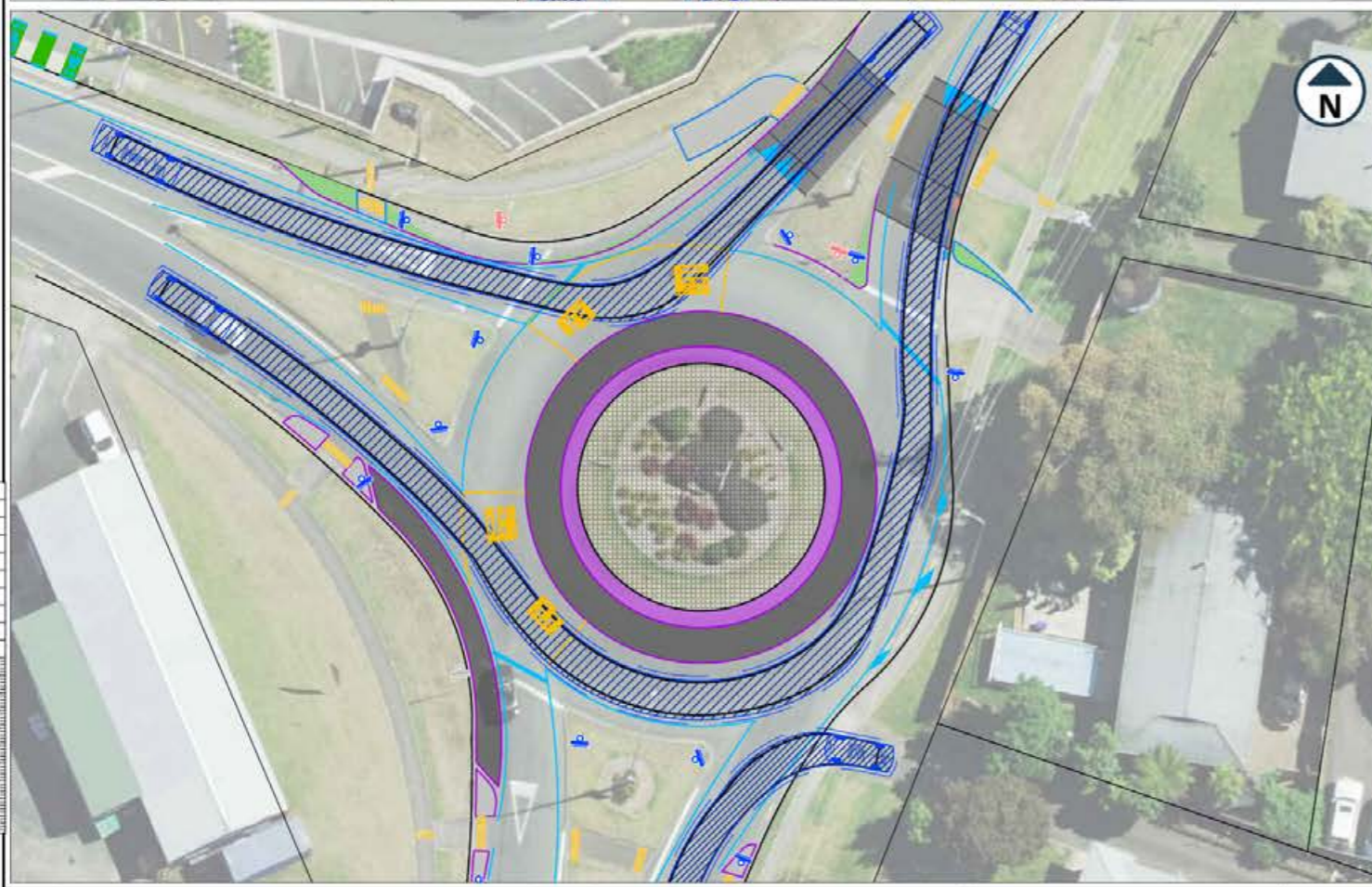
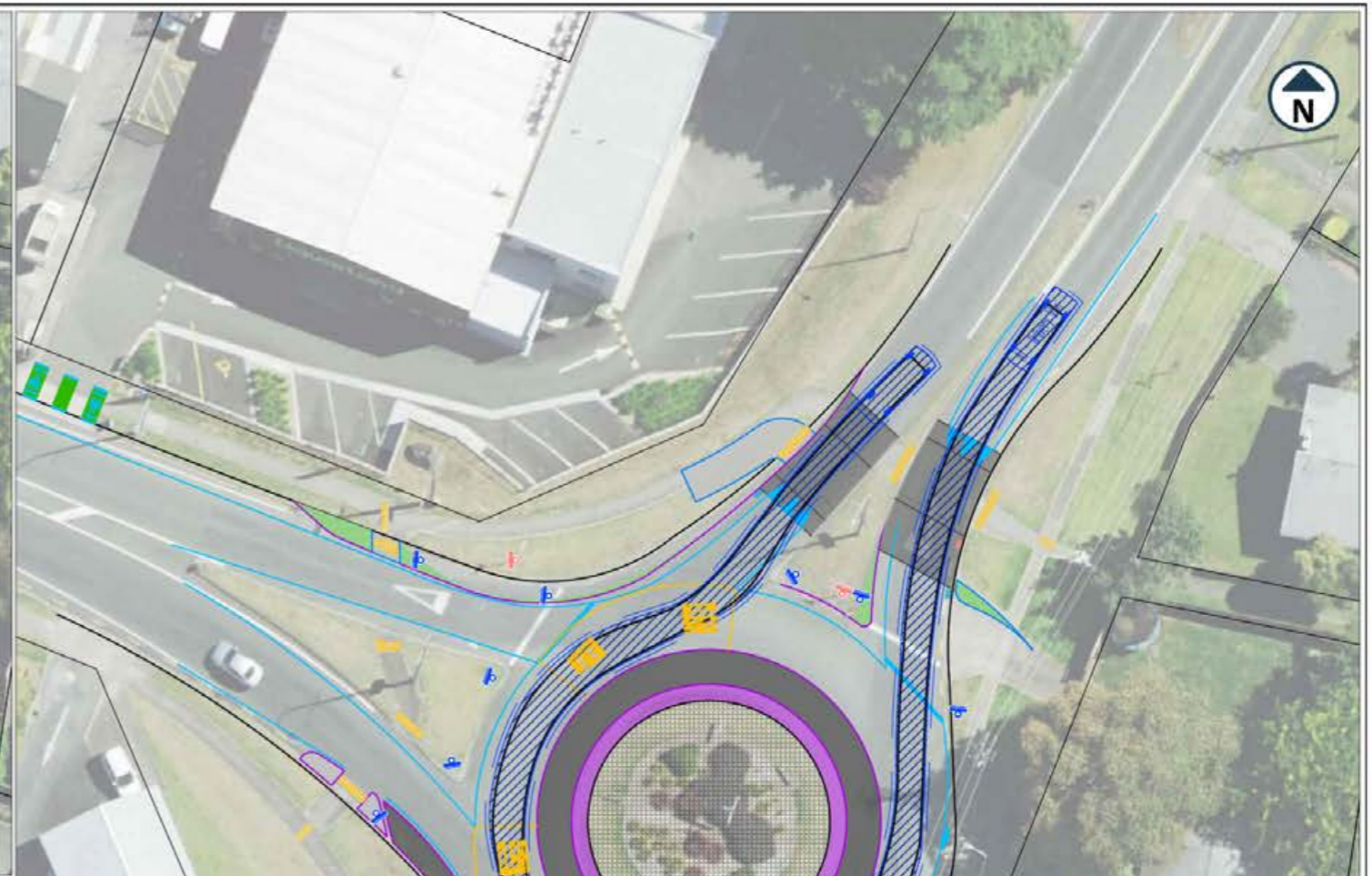
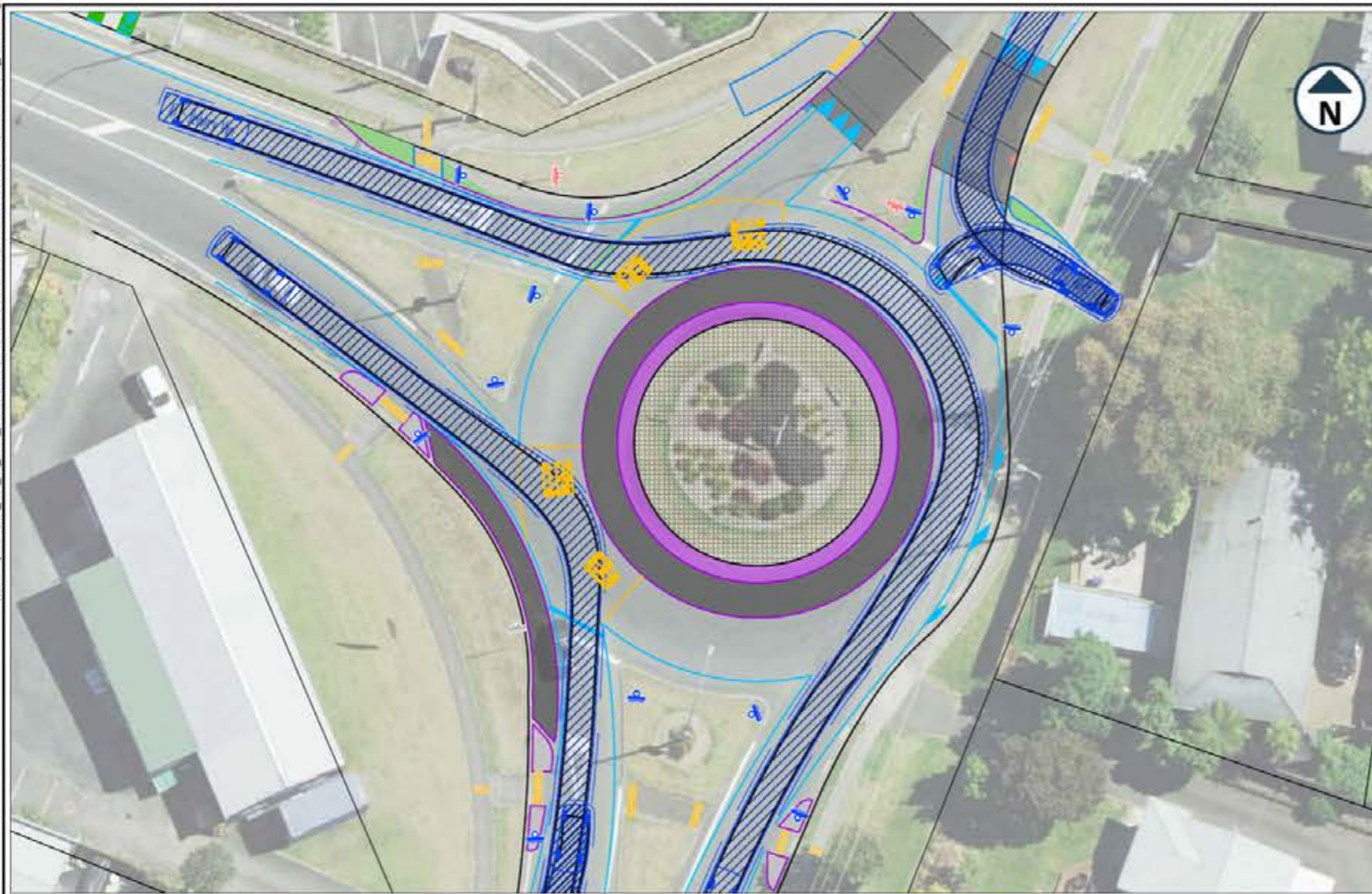


PROJECT TITLE
WAIPA DISTRICT COUNCIL
SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW

DRAWING TITLE
VEHICLE TRACKING PLAN - 8.3m RIGID TRUCK
SHEET 1

STATUS	SKETCHES	
A1 Scales	1:200	PROJECT NO. S20240137
DRAWING NO.	S20240137_C092	REVISION A

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ORIGINAL SIZE A1

0 10 20 30 40 50 60 70 80 90 100mm

TRACKING VEHICLE

85th PERCENTILE CAR

Overall Length	4.888m
Overall Width	1.874m
Overall Body Height	1.440m
Min Body Ground Clearance	0.138m
Max Track Width	1.859m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.950m

TRACKING VEHICLE

DELIVER VAN

Overall Length	6.363m
Overall Width	2.050m
Overall Body Height	2.432m
Min Body Ground Clearance	0.206m
Max Track Width	1.810m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	7.200m

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	DATE
A	SAFETY AND DESIGN REVIEW	05/2024

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
DRAWN BY	W. CHAN	02/05/2024
DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-



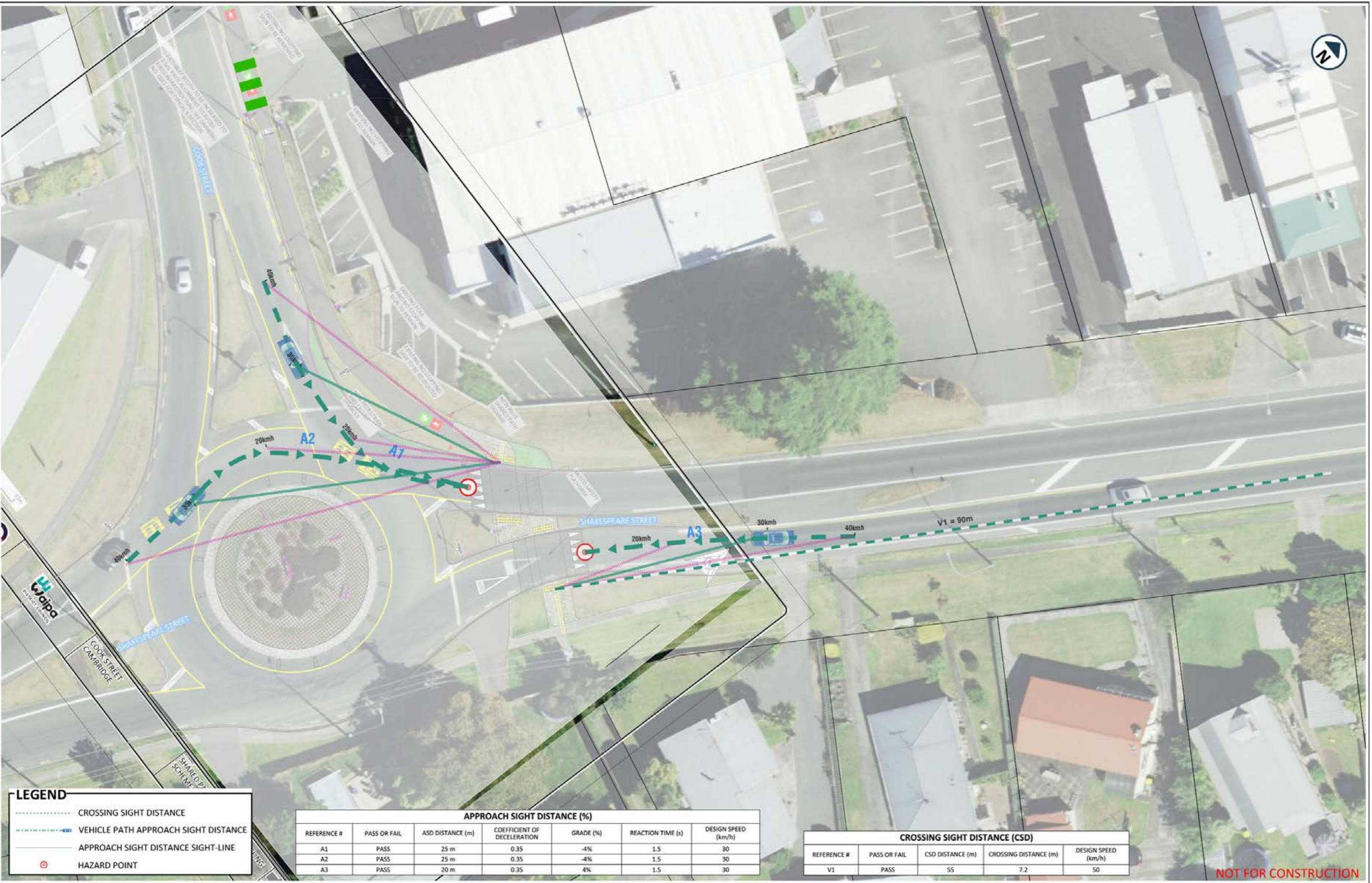
PROJECT TITLE
**WAIPA DISTRICT COUNCIL
SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW**

DRAWING TITLE
**VEHICLE TRACKING PLAN - 6m VAN
SHEET 1**

STATUS	
SKETCHES	
A1 Scales	PROJECT NO. S20240137
DRAWING NO. S20240137_C093	REVISION A

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ORIGINAL SIZE A1



LEGEND

- CROSSING SIGHT DISTANCE
- VEHICLE PATH APPROACH SIGHT DISTANCE
- APPROACH SIGHT DISTANCE SIGHT-LINE
- ⊙ HAZARD POINT

APPROACH SIGHT DISTANCE (%)						
REFERENCE #	PASS OR FAIL	ASD DISTANCE (m)	COEFFICIENT OF DECELERATION	GRADE (%)	REACTION TIME (s)	DESIGN SPEED (km/h)
A1	PASS	25 m	0.35	-4%	1.5	30
A2	PASS	25 m	0.35	-4%	1.5	30
A3	PASS	20 m	0.35	4%	1.5	30

CROSSING SIGHT DISTANCE (CSD)				
REFERENCE #	PASS OR FAIL	CSD DISTANCE (m)	CROSSING DISTANCE (m)	DESIGN SPEED (km/h)
V1	PASS	55	7.2	50

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	APPROVED	DATE
A	SAFETY AND DESIGN REVIEW	SP	05/2024

DESIGNED	W. CHAN	02/05/2024
DESIGN REVIEW	S. PASLEY	02/05/2024
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DRAWING REVIEW	S. PASLEY	02/05/2024
APPROVED BY	S. PASLEY	02/05/2024
SURVEYED	-	-



PROJECT TITLE
**WAIPA DISTRICT COUNCIL
SHARED PATH WALKING AND CYCLING SAFETY AND DESIGN REVIEW**

DRAWING TITLE
VISIBILITY PLAN - BBO DESIGN

STATUS	
SKETCHES	
A1 Scales	PROJECT NO. S20240137
DRAWING NO. S20240137_C100	REVISION A

