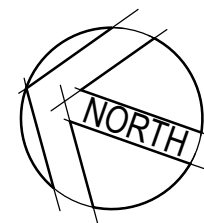


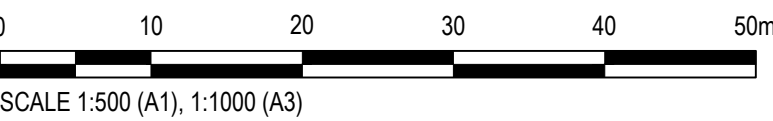
[illegible]

NOTE:

1. IMAGERY SOURCED FROM NEARMAP MARCH, 2019

LEGEND

— EXISTING PROPERTY BOUNDARY



CALDERWOOD ROAD / TRIPOLI WAY CONCEPT LAYOUT




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Drawn	Date
EKM	31/07/2019
Checked	Date
MPR	31/07/2019
Designed	Date
XDH	31/07/2019
Verified	Date
XDH	31/07/2019
Approved	
IP	31/07/2019

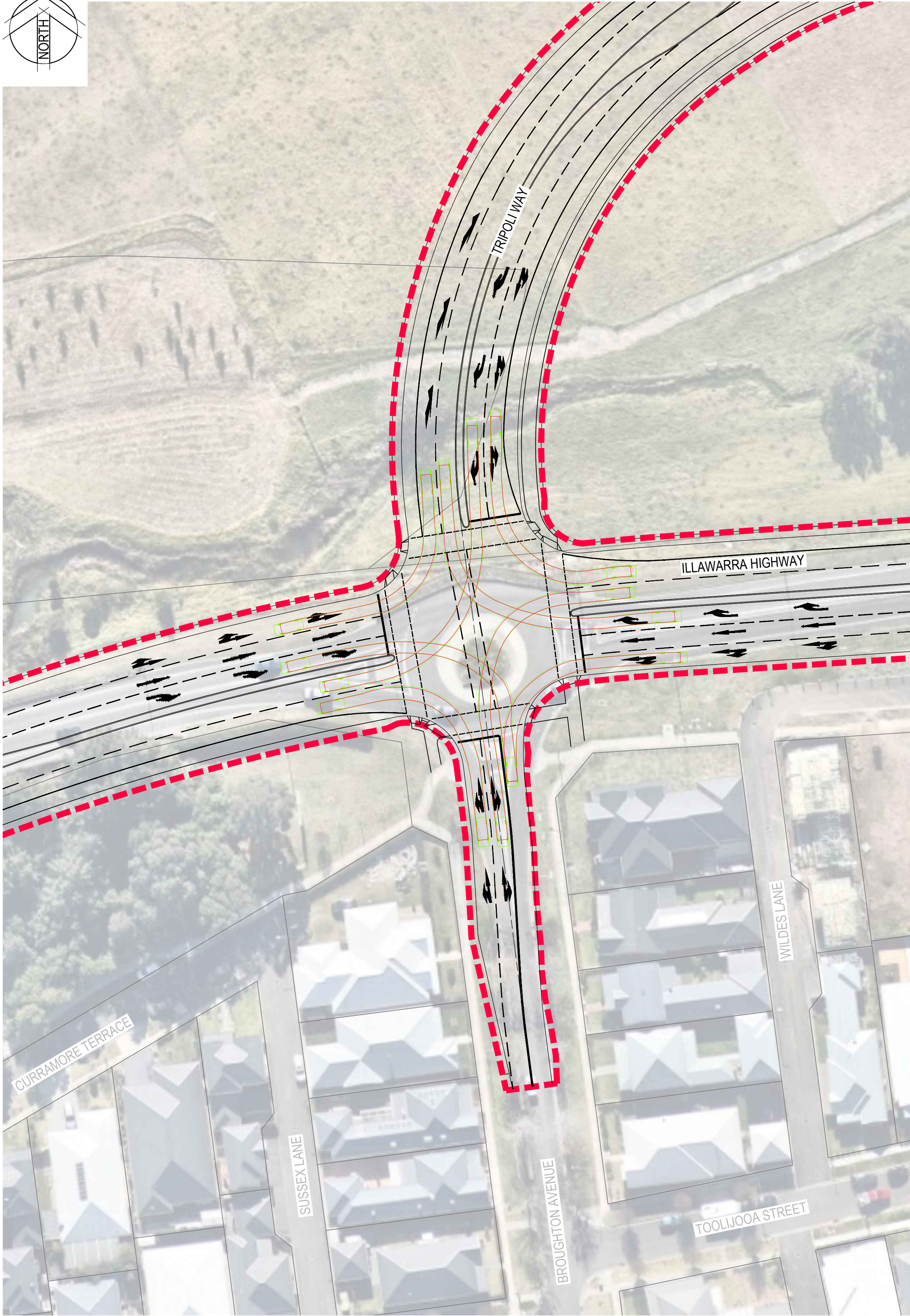
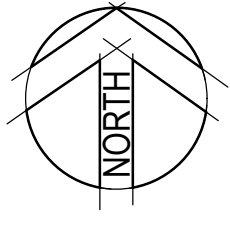
Client	LENLEASE
Project	CALDERWOOD ROAD / TRIPOLI WAY INTERSECTION CONCEPT DESIGN
Title	CALDERWOOD ROAD / TRIPOLI WAY INTERSECTION CONCEPT LAYOUT PLAN

Status			
PRELIMINARY			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM		Scale	Size
AHD		1:500	A1
Drawing Number			Revision
82015040-54-SK035			6

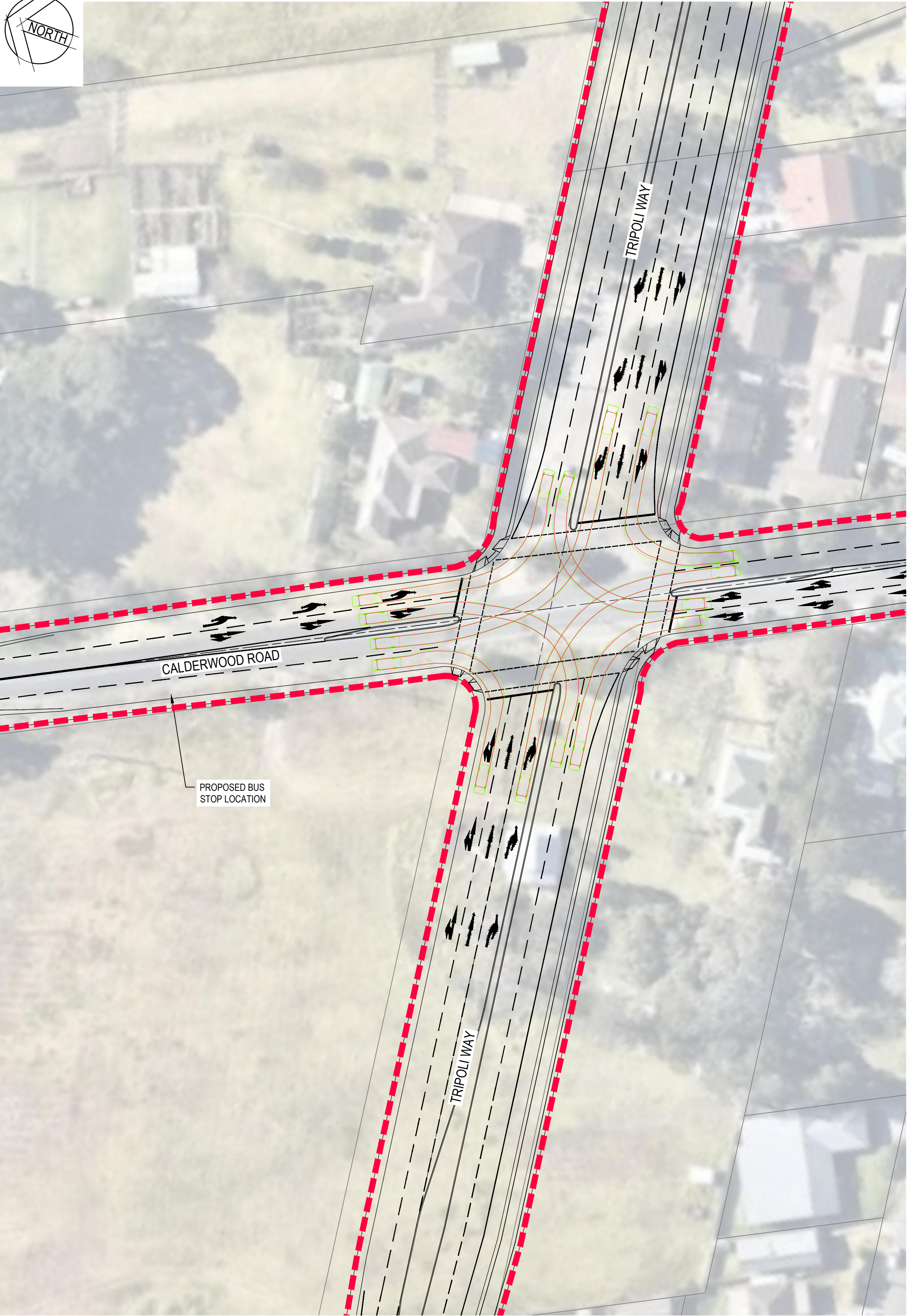
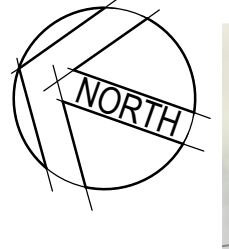


Status		PRELIMINARY	
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM	Scale	Size	
AHD	1:500	A1	
Drawing Number			Revision
82015040-54-SK036			6

[illegible]



TRIPOLI WAY / ILLAWARRA HIGHWAY TURNING PATHS
SCALE 1:500



CALDERWOOD ROAD / TRIPOLI WAY TURNING PATHS
SCALE 1:500

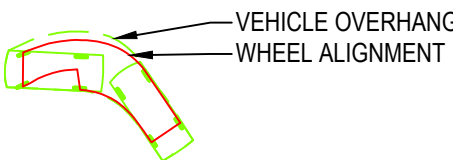
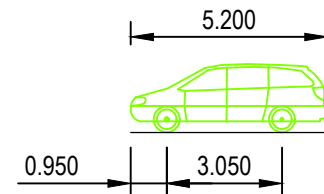
NOTE:

1. IMAGERY SOURCED FROM NEARMAP MARCH, 2019

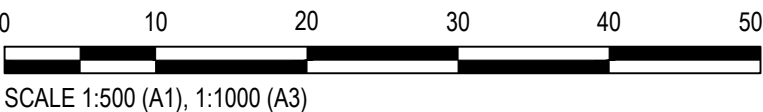
LEGEND

— EXISTING BOUNDARY (CADASTRE)
- - - PROPOSED SITE BOUNDARY

PASSENGER
VEHICLE (5.2 m)



PASSENGER VEHICLE (5.2 m)
OVERALL LENGTH 5.200m
OVERALL WIDTH 1.940m
OVERALL BODY HEIGHT 1.804m
MIN BODY GROUND CLEARANCE 0.295m
TRACK WIDTH 1.840m
LOCK-TO-LOCK TIME 4.00s
CURB TO CURB TURNING RADIUS 6.300m



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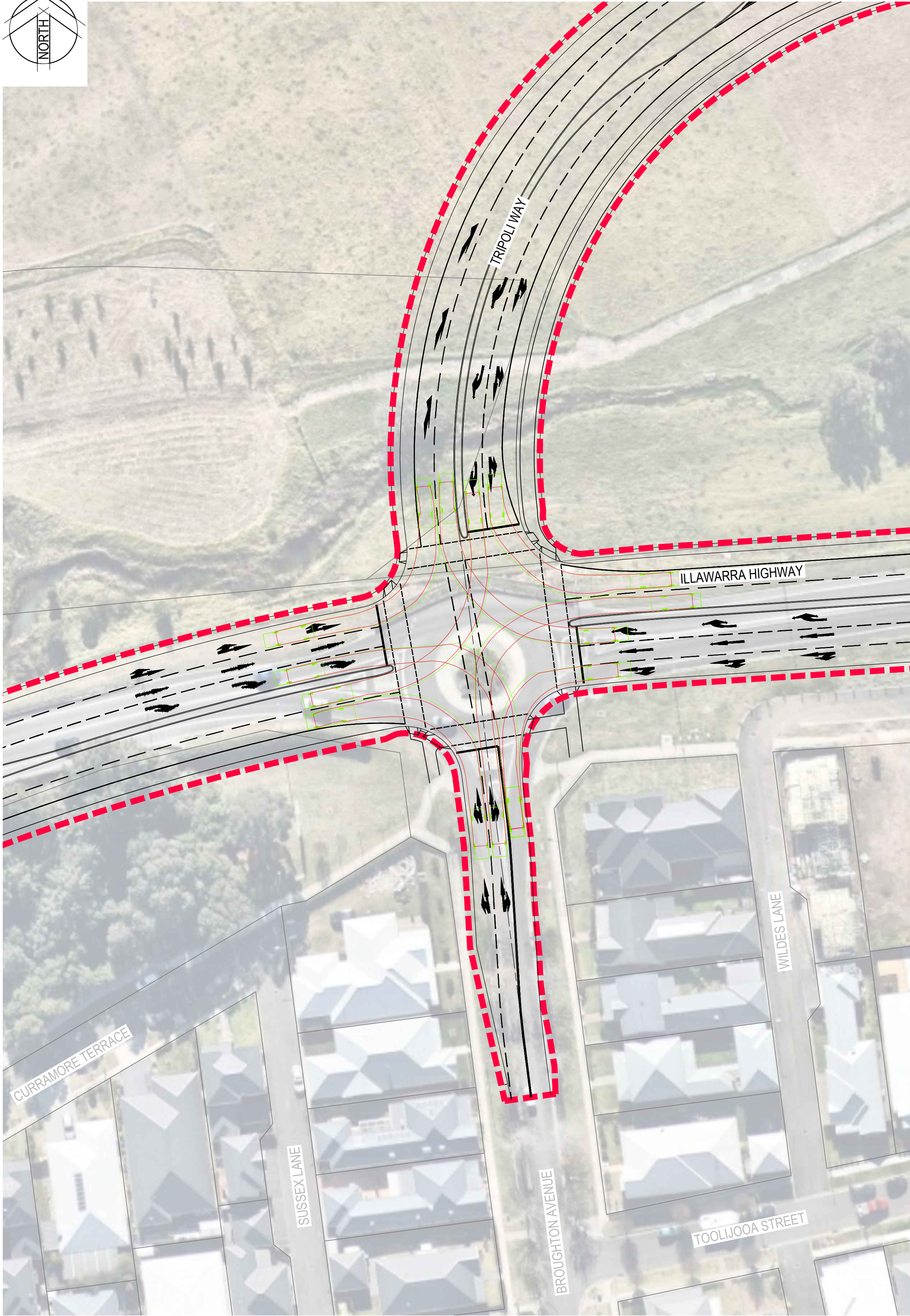
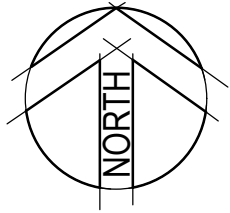


Drawn	EKM	Date	31/07/2019
Checked	MPR	Date	31/07/2019
Designed	XDH	Date	31/07/2019
Verified	XDH	Date	31/07/2019
Approved	IP	Date	31/07/2019

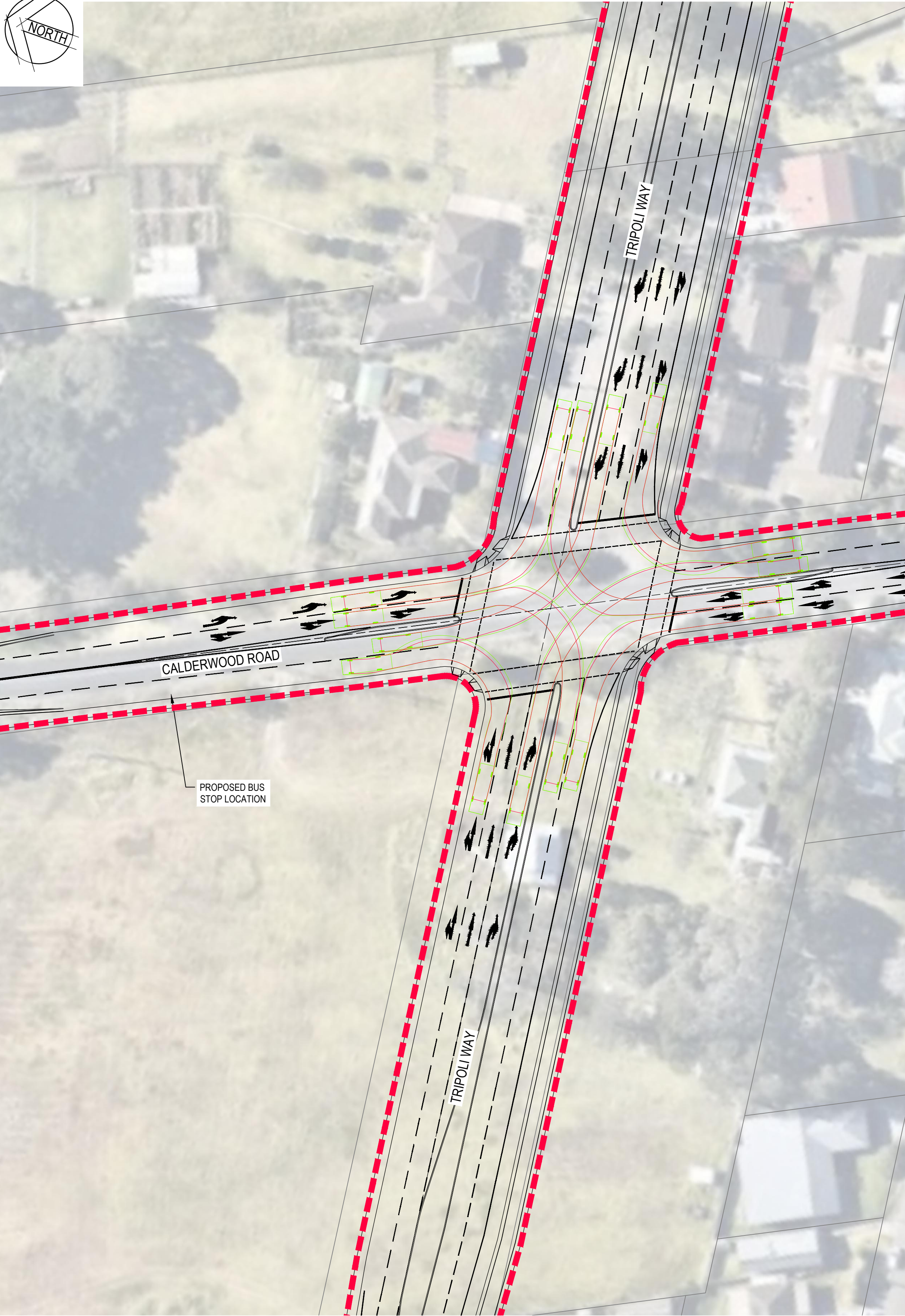
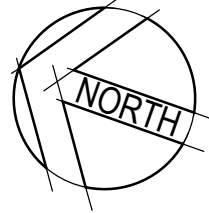
Client **LENLEASE**

Project **CALDERWOOD ROAD UPGRADE**
CONCEPT DESIGN
ROAD CONCEPT
Title **TURNING PATHS**
SHEET 1 OF 4

Status	PRELIMINARY		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM		Scale	Size
AHD		1:500	A1
Drawing Number			Revision
82015040-54-SK042			2



TRIPOLI WAY / ILLAWARRA HIGHWAY TURNING PATHS
SCALE 1:500



CALDERWOOD ROAD / TRIPOLI WAY TURNING PATHS
SCALE 1:500

NOTE:

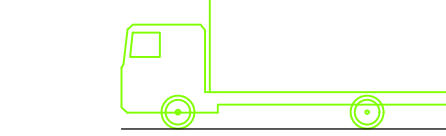
1. IMAGERY SOURCED FROM NEARMAP MARCH, 2019

LEGEND

— EXISTING BOUNDARY (CADASTRE)
- - - PROPOSED SITE BOUNDARY

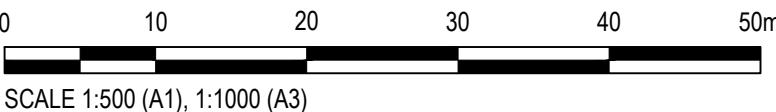
SERVICE VEHICLE (8.8m)

8.800



VEHICLE OVERHANG
WHEEL ALIGNMENT

SERVICE VEHICLE (8.8m)	
OVERALL LENGTH	8.800m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN BODY GROUND CLEARANCE	0.427m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	4.00s
CURB TO CURB TURNING RADIUS	12.500m



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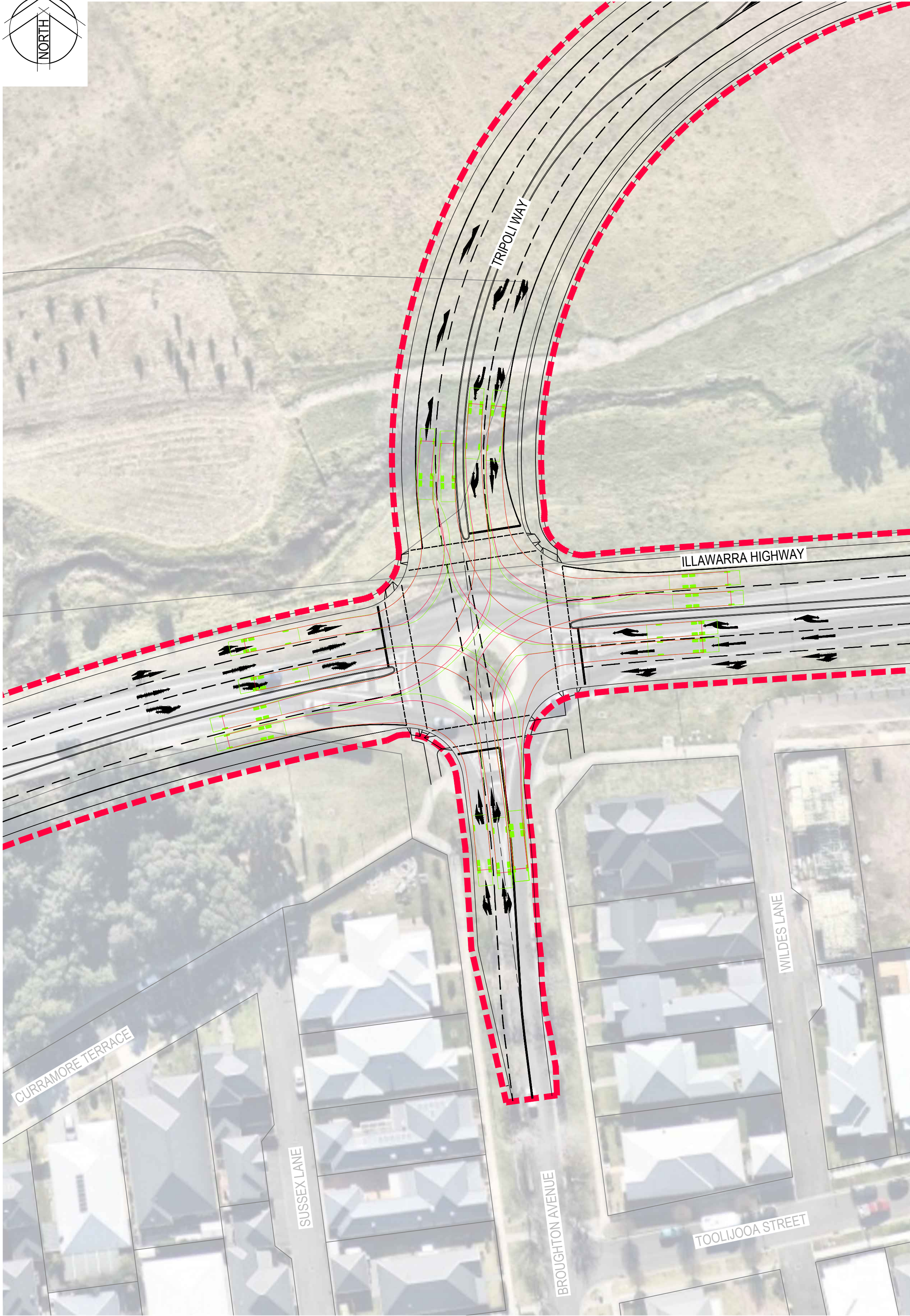
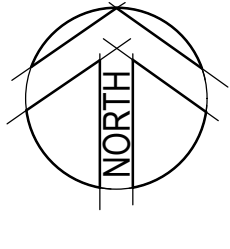
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Drawn	EKM	Date	31/07/2019
Checked	MPR	Date	31/07/2019
Designed	XDH	Date	31/07/2019
Verified	XDH	Date	31/07/2019
Approved			
IP			31/07/2019

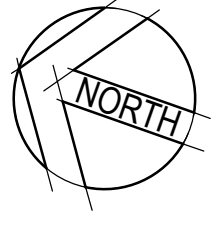
Client **LENDELEASE**

Project **CALDERWOOD ROAD UPGRADE**
CONCEPT DESIGN
ROAD CONCEPT
Title **TURNING PATHS**
SHEET 2 OF 4

Status	PRELIMINARY		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM	DATUM	Scale	Size
	AHD	1:500	A1
Drawing Number			Revision
82015040-54-SK043			2



TRIPOLI WAY / ILLAWARRA HIGHWAY TURNING PATHS
SCALE 1:500

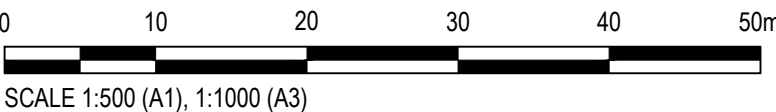
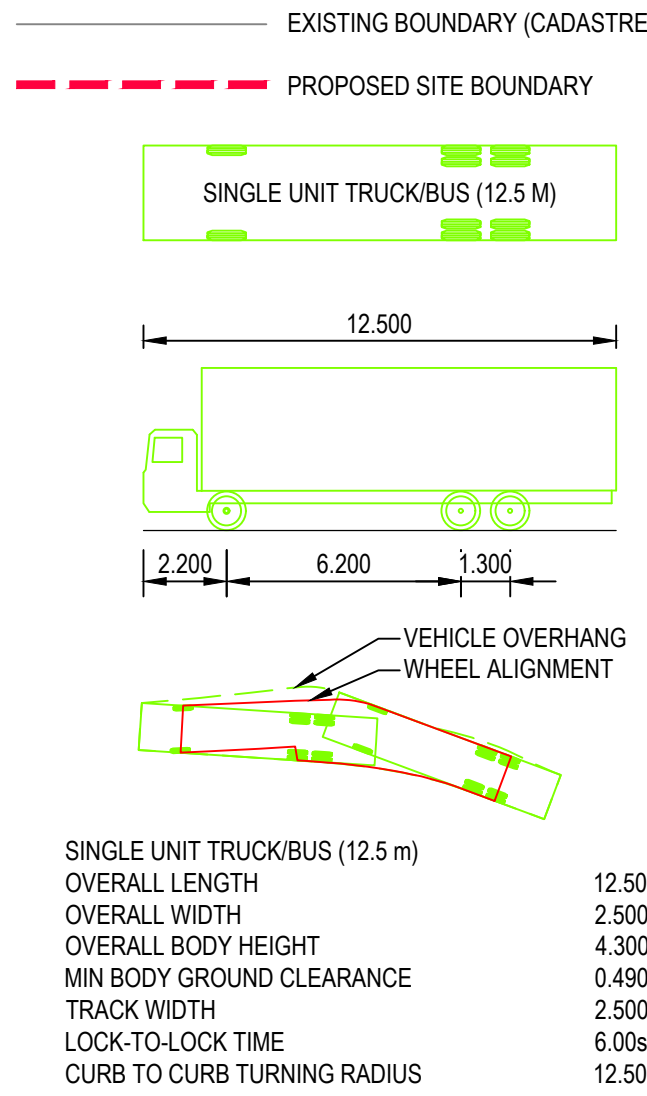


CALDERWOOD ROAD / TRIPOLI WAY TURNING PATHS
SCALE 1:500

NOTE:

1. IMAGERY SOURCED FROM NEARMAP MARCH, 2019

LEGEND



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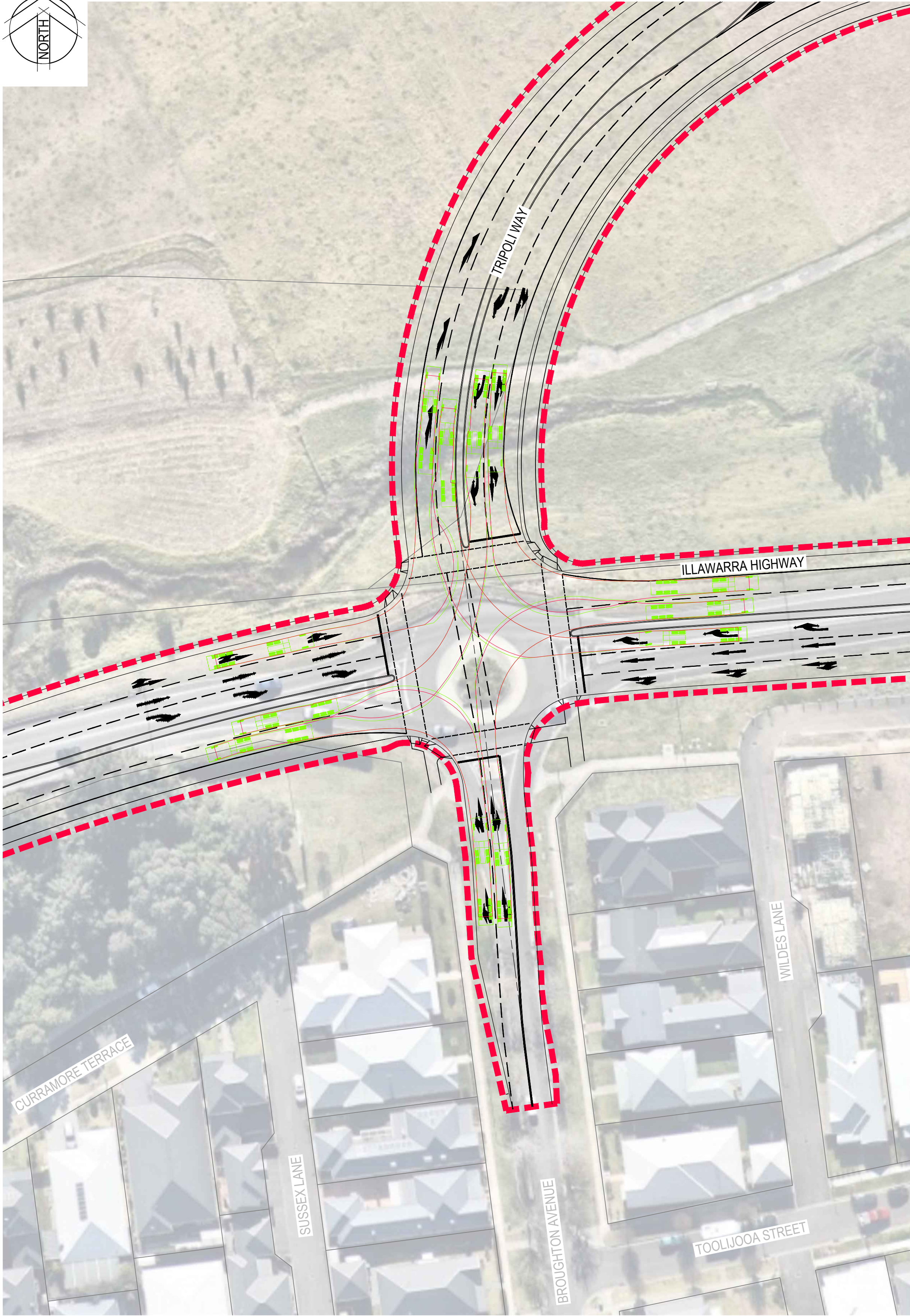
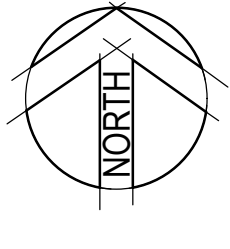


Drawn	EKM	Date	31/07/2019
Checked	MPR	Date	31/07/2019
Designed	XDH	Date	31/07/2019
Verified	XDH	Date	31/07/2019
Approved	IP	Date	31/07/2019

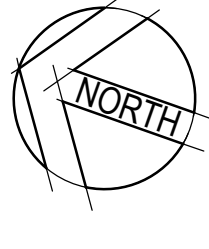
Client **LENLEASE**

Project **CALDERWOOD ROAD UPGRADE**
CONCEPT DESIGN
ROAD CONCEPT
Title **TURNING PATHS**
SHEET 3 OF 4

Status	PRELIMINARY		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM	Scale	Size	
AHD	1:500	A1	
Drawing Number			Revision
82015040-54-SK044			2



TRIPOLI WAY / ILLAWARRA HIGHWAY TURNING PATHS
SCALE 1:500



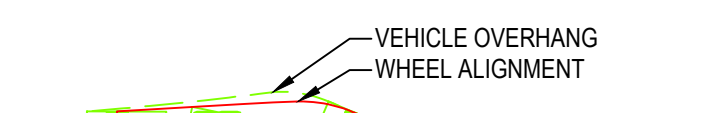
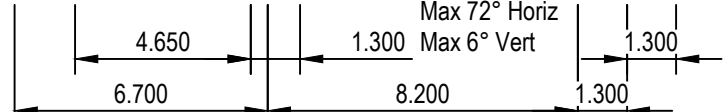
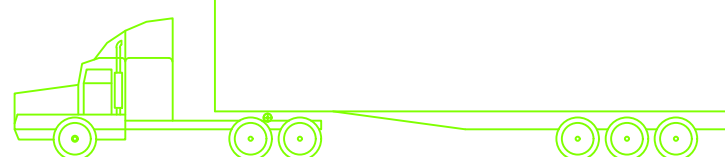
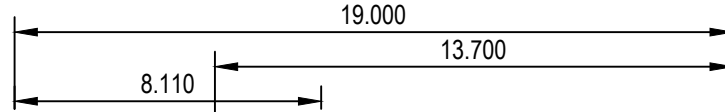
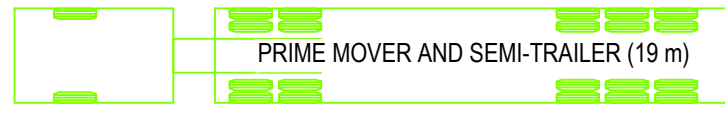
CALDERWOOD ROAD / TRIPOLI WAY TURNING PATHS
SCALE 1:500

NOTE:

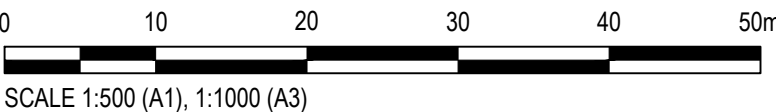
1. IMAGERY SOURCED FROM NEARMAP MARCH, 2019

LEGEND

— EXISTING BOUNDARY (CADASTRE)
- - - PROPOSED SITE BOUNDARY



PRIME MOVER AND SEMI-TRAILER (19 m)	
OVERALL LENGTH	19.000m
OVERALL WIDTH	2.500m
OVERALL BODY HEIGHT	4.300m
MIN BODY GROUND CLEARANCE	0.540m
TRACK WIDTH	2.500m
LOCK-TO-LOCK TIME	6.00s
CURB TO CURB TURNING RADIUS	12.500m



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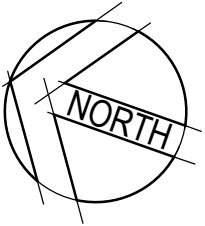
Drawn	EKM	Date	31/07/2019
Checked	MPR	Date	31/07/2019
Designed	XDH	Date	31/07/2019
Verified	XDH	Date	31/07/2019
Approved	IP	Date	31/07/2019

Client **LENLEASE**

Project **CALDERWOOD ROAD UPGRADE**
CONCEPT DESIGN
ROAD CONCEPT
Title **TURNING PATHS**
SHEET 4 OF 4

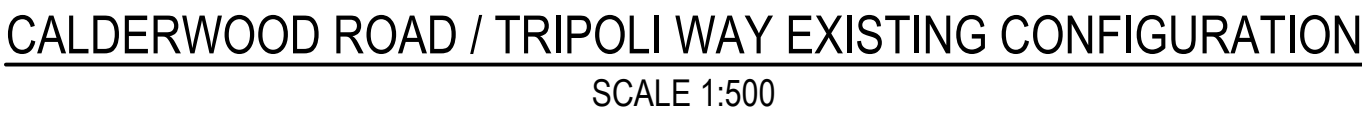
Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DATUM	AHD	Scale	1:500
Drawing Number	82015040-54-SK045		Size A1
Revision	2		

Rev.	Date	Description	Des.	Verif.	Appd.
2	23/08/2019	ISSUED FOR INFORMATION	XDH	HC	PM
1	31/07/2019	ISSUED FOR INFORMATION	XDH	XDH	IP



LEGEND:

— — — — —	EXISTING ROAD CENTRELINE
—————	EXISTING BOUNDARY (CADASTRE)
————— 10.0 —————	EXISTING SURFACE CONTOURS



2	23/08/2019	ISSUED FOR INFORMATION	XDH	HC	PM
1	1/08/2019	ISSUED FOR INFORMATION	XDH	XDH	IP
Rev.	Date	Description	Des.	Verif.	Appd.



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Drawn XDH	Date 1/08/2019	Client LENLEASE			
Checked XDH	Date 1/08/2019	Project CALDERWOOD ROAD UPGRADE CONCEPT DESIGN	Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Designed XDH	Date 1/08/2019				
Verified XDH	Date 1/08/2019				
Approved		Title CALDERWOOD ROAD / TRIPOLI WAY INTERSECTION EXISTING CONFIGURATION LAYOUT PLAN	DATUM AHD		
IP	1/08/2019		Scale 1:500		
		Drawing Number 82015040-54-SK046		Size A1	
				Revision 2	



NOTE:

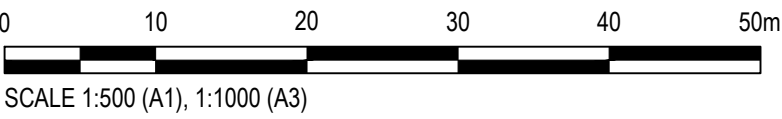
1. IMAGERY SOURCED FROM NEARMAP AUGUST, 2019
2. EXISTING ROAD ALIGNMENT HAS BEEN DEVELOPED USING AERIAL IMAGERY. NOT TO BE USED FOR DESIGN PURPOSES, INTENDED TO PROVIDE AN INDICATIVE LAYOUT OF EXISTING CONDITIONS

LEGEND:

— — — — — EXISTING ROAD CENTRELINE

————— EXISTING BOUNDARY (CADASTRE)

————— 10.0 ————— EXISTING SURFACE CONTOURS



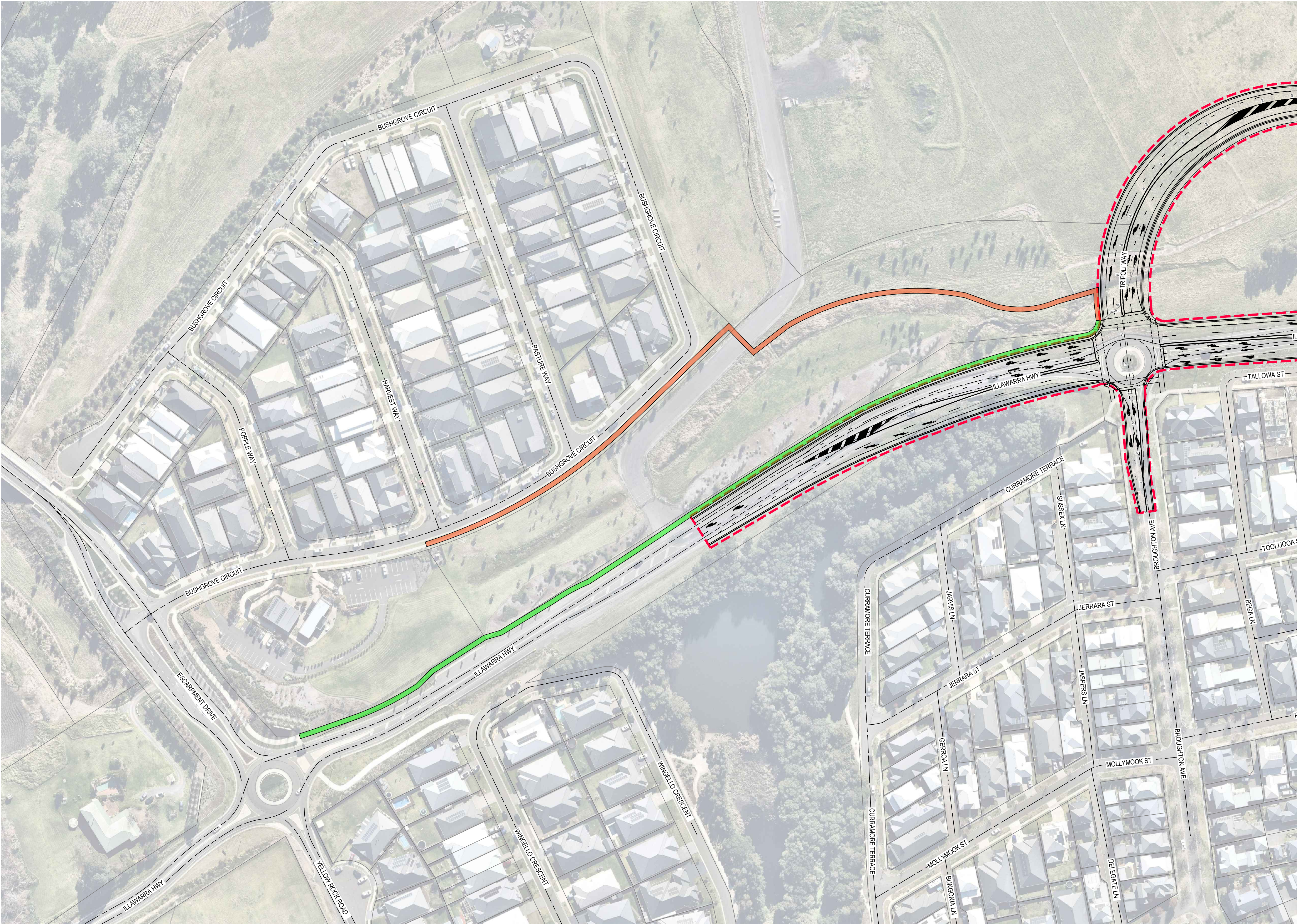
2	23/08/2019	ISSUED FOR INFORMATION	XDH	HC	PM
1	1/08/2019	ISSUED FOR INFORMATION	XDH	XDH	IP
Rev.	Date	Description	Des.	Verif.	Appd.



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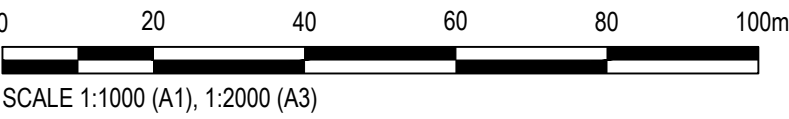
Drawn XDH	Date 1/08/2019	Client LENLEASE				
Checked MJP	Date 1/08/2019	Project CALDERWOOD ROAD UPGRADE CONCEPT DESIGN	Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Designed XDH	Date 1/08/2019	Title BROUGHTON AVE / ILLAWARRA HWAY INTERSECTION EXISTING CONFIGURATION LAYOUT PLAN	DATUM AHD	Scale 1:500	Size A1	
Verified XDH	Date 1/08/2019		Drawing Number 82015040-54-SK047	Revision 2		
Approved						
IP	1/08/2019					



EXISTING FOOTPATH CONNECTION LAYOUT PLAN
SCALE 1:1000

NOTE:
1. IMAGERY SOURCED FROM NEARMAP AUGUST, 2019
2. EXISTING ROAD ALIGNMENT HAS BEEN DEVELOPED USING AERIAL IMAGERY. NOT TO BE USED FOR DESIGN PURPOSES, INTENDED TO PROVIDE AN INDICATIVE LAYOUT OF EXISTING CONDITIONS

LEGEND:
— EXISTING BOUNDARY (CADASTRE)
— EXISTING ROAD CENTRELINE
- - - PROPOSED SITE BOUNDARY
PROPOSED FOOTPATH OPTION 1
PROPOSED FOOTPATH OPTION 2



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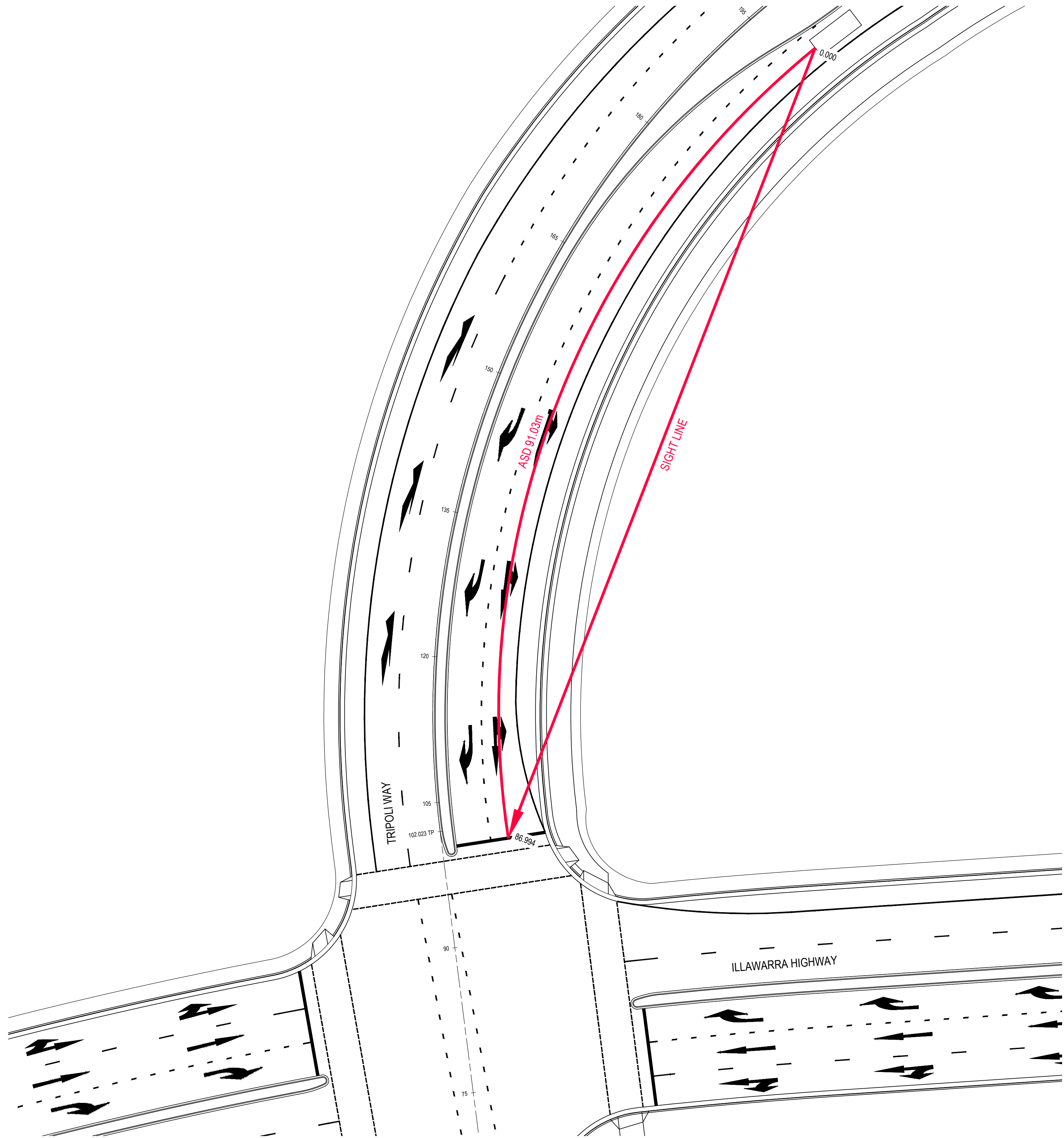
Drawn	23/08/2019	Date	Client
Checked	23/08/2019	Date	Project
Designed	23/08/2019	Date	EXISTING FOOTPATH CONNECTION LAYOUT PLAN
Verified	23/08/2019	Date	
Approved	23/08/2019	Date	

Client **LENLEASE**
Project **CALDERWOOD ROAD UPGRADE CONCEPT DESIGN**
Title **EXISTING FOOTPATH CONNECTION LAYOUT PLAN**

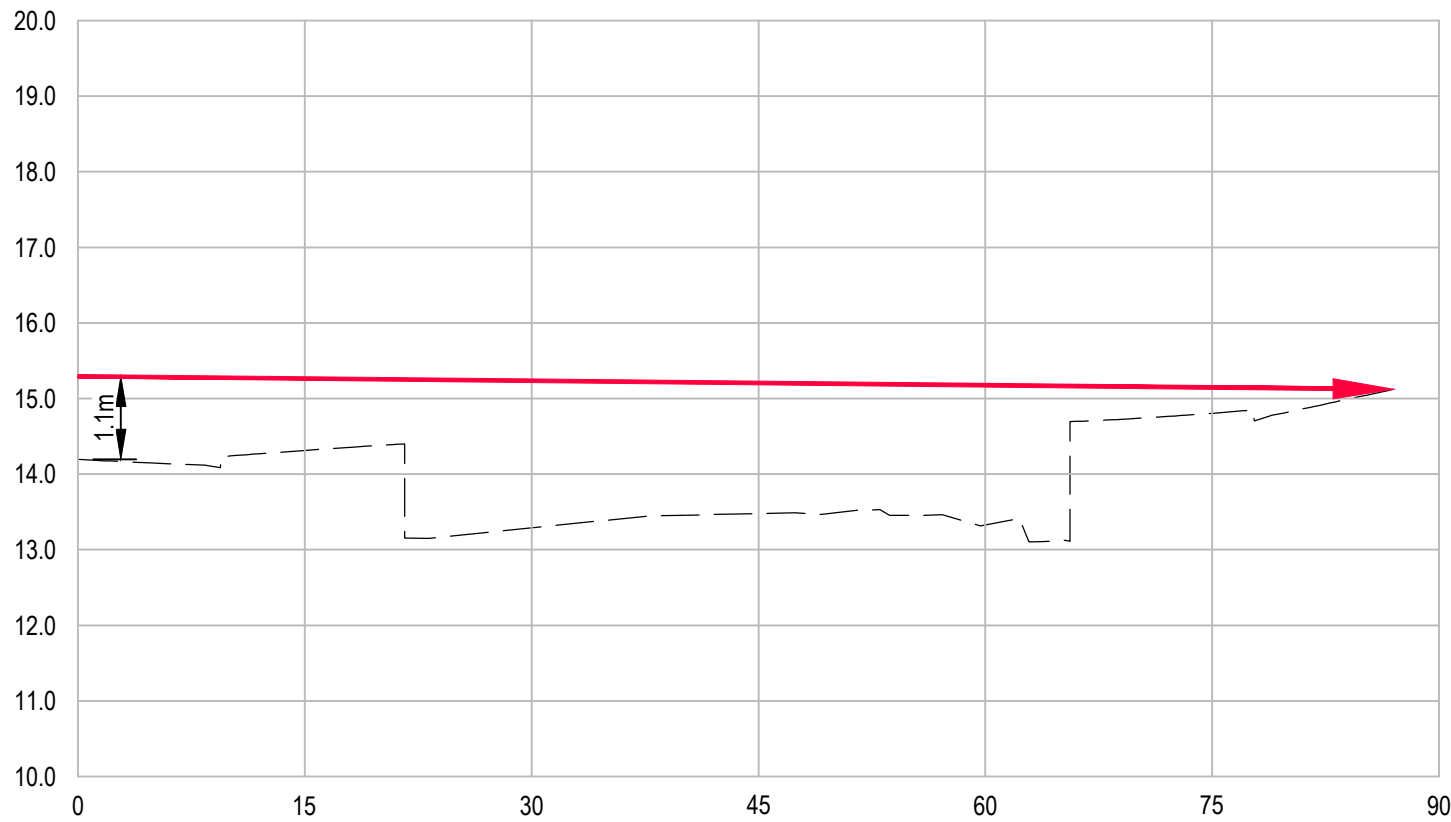
Status				PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES	
DATUM		Scale			
AHD		1:1000		A1	
Drawing Number				Revision	
82015040-54-SK048				2	

DATE PLOTTED: 18 November 2019 4:49 PM BY: JACK WINWOOD-SMITH

XREFs: XR-82015040-54-G-TITLE; XR-820161261-01-D2-BASE; XR-820161261-01-D2-SIGNS & LINES
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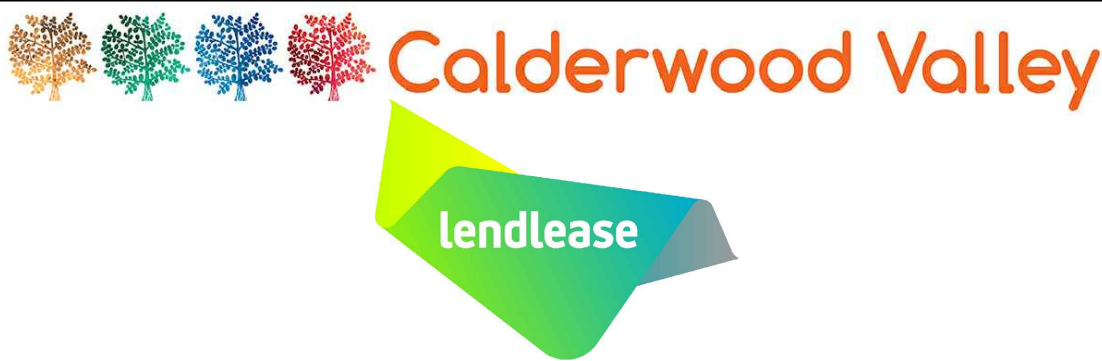
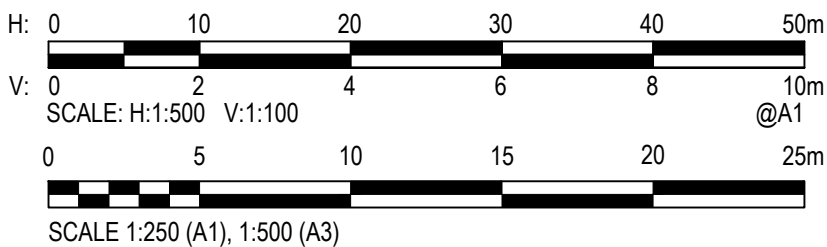


SIGHT DISTANCE LAYOUT
SCALE 1:250



LONGITUDINAL SECTION - SIGHT LINE
SCALE - HORIZ 1:500 VERT 1:100 (VERTICAL 5x EXAGGERATED)

APPROACH SIGHT DISTANCE (ASD)			
R _t (REACTION TIME) =	2.0 s	(TABLE 5.2 - AGRD PART 3)	
V (DESIGN SPEED) =	70 km/h	(SIGN POSTED SPEED + 10 km/h)	
d (COEFFICIENT OF DECELERATION) =	0.36	(TABLE 5.3 - AGRD PART 3)	
a (LONGITUDINAL GRADE) =	1.0%		
MINIMUM REQUIRED ASD =	91.03 m		



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Web: www.cardno.com.au

Drawn	JWS	Date	15/11/2019
Checked	BAH	Date	15/11/2019
Designed	MPR	Date	23/08/2019
Verified	XDH	Date	23/08/2019
Approved			
IP		Date	15/11/2019

Client	LENLEASE
Project	CALDERWOOD ROAD UPGRADE
	CONCEPT DESIGN
	ROAD CONCEPT
Title	SIGHT DISTANCE LAYOUT PLAN AND LONG SECTION

Status	PRELIMINARY		
	NOT TO BE USED FOR CONSTRUCTION PURPOSES		
DATUM	AHD	Scale	AS SHOWN
Drawing Number	82015040-54-SK049	Size	A1
Revision			1