

Design Summary Document Appendix A dwg 00500 to 00505 - Design Audit

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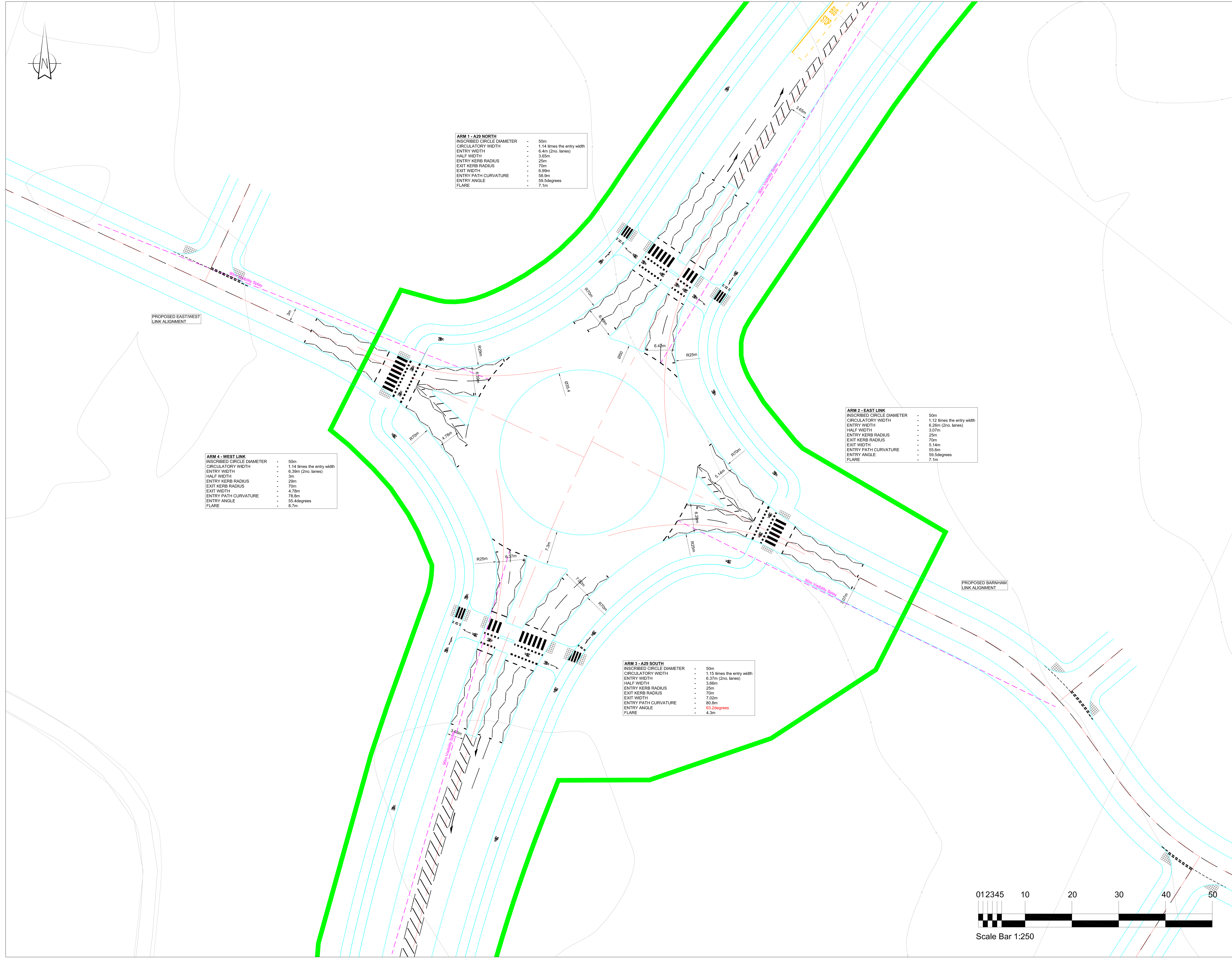
00500 - 00505 - Design Audit

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- NOTES:
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 - Partial Western Link Road designed by CALA, Pell Frischmann will not be held liable for any inaccuracies contained within this section.

KEY:

A29 ROAD CORRIDOR

PROPOSED KERBS

Junction Visibility Splays based on Table 7.1 from Manual for Streets. This applies to Western Link, Barnham Station Link and the Hanbury Link.

Table 7.1 Derived SSDs for Streets (figures rounded)

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
Miles per hour	10	12	15	16	19	20	25	28	30	31	37	
SSD (metres)	9	12	15	16	20	22	31	36	40	43	56	
SSD adjusted for bonnet length. See 7.6.4	11	14	17	18	23	25	33	39	43	45	59	

Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

DMRB design speed related parameters

Design speed (km/h)	40	50	60	70	80	90	100	110	120	130	140	150
Stopping sight distance (m)	25	30	35	40	45	50	55	60	65	70	75	80
Design speed (mph)	25	30	35	40	45	50	55	60	65	70	75	80
Design speed (m/s)	11.2	13.4	15.6	17.8	20.0	22.2	24.4	26.6	28.8	31.0	33.2	35.4
Design speed (ft/s)	34.1	40.7	47.3	54.0	60.6	67.2	73.8	80.4	87.0	93.6	100.2	106.8
Design speed (km/h)	40	50	60	70	80	90	100	110	120	130	140	150
Design speed (mph)	25	30	35	40	45	50	55	60	65	70	75	80
Design speed (m/s)	11.2	13.4	15.6	17.8	20.0	22.2	24.4	26.6	28.8	31.0	33.2	35.4
Design speed (ft/s)	34.1	40.7	47.3	54.0	60.6	67.2	73.8	80.4	87.0	93.6	100.2	106.8
Design speed (km/h)	40	50	60	70	80	90	100	110	120	130	140	150
Design speed (mph)	25	30	35	40	45	50	55	60	65	70	75	80
Design speed (m/s)	11.2	13.4	15.6	17.8	20.0	22.2	24.4	26.6	28.8	31.0	33.2	35.4
Design speed (ft/s)	34.1	40.7	47.3	54.0	60.6	67.2	73.8	80.4	87.0	93.6	100.2	106.8

Design Principles

Standards of Highway design are based on DMRB CD 116 & CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph. The Minimum Road width for A29 is 7.3m, allowing for the flow of two way traffic. The Minimum Road width for East/West link and other link roads is 6m, allowing for the flow of two way traffic. The A29 will have 5m Wide Verges with a 4m wide Segregated Footway/Cycleway, running parallel with the alignment of the Carriageway.

P04	Client Reference updated	KM	TM	TM	10.01.22
P03	Scale Bar Added	KM	TM	TM	05.11.21
P02	Minor amendments following comments from team	KM	TM	TM	05.10.21
P01	ISSUED FOR REVIEW	KM	PW	TM	13/08/2021
REV	DESCRIPTION	DRN	CHK	APP	DATE

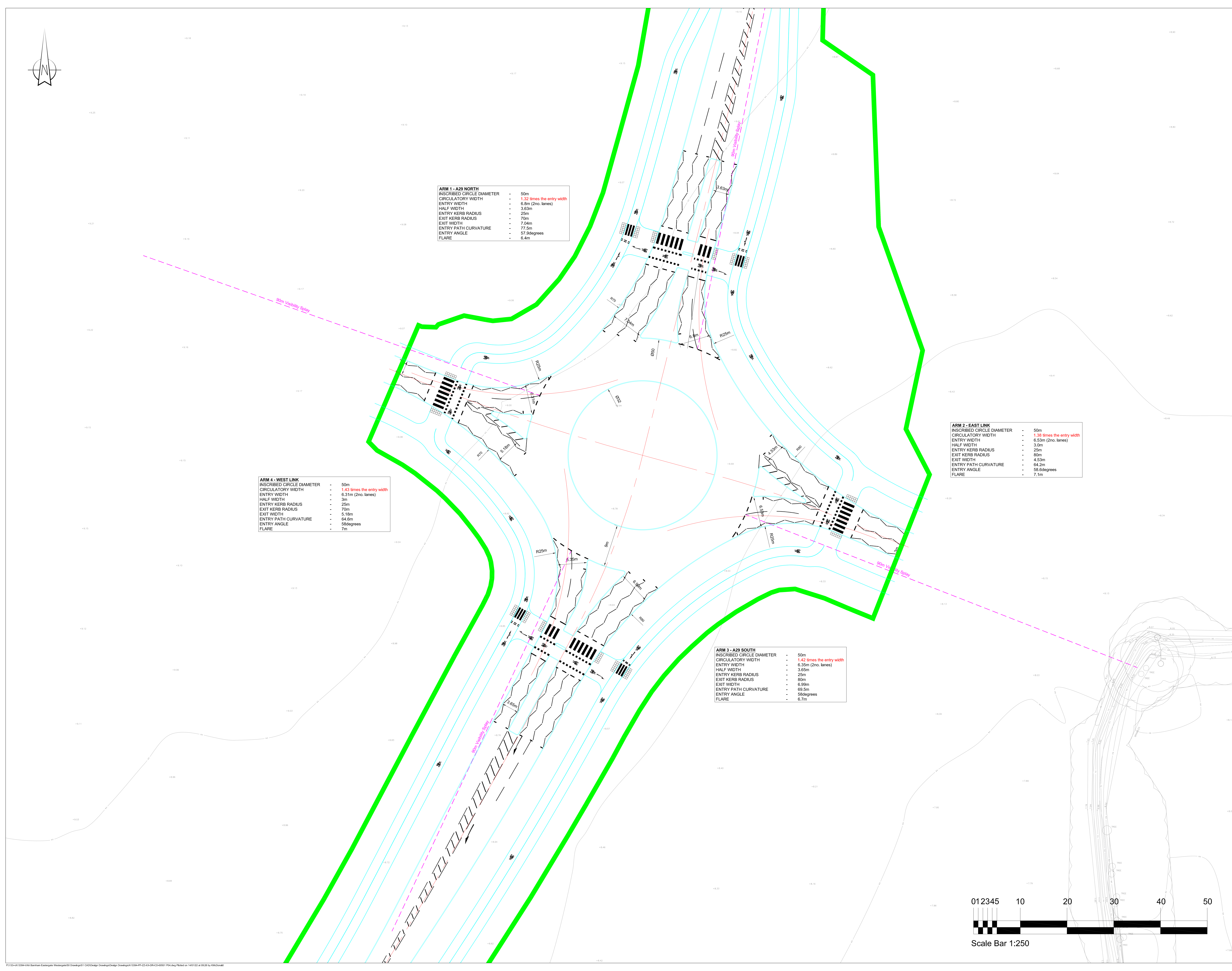
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Client
**CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd**

Project
BEW Parcel SC1

Drawing Title
**A29 Link Road
A29-4 Roundabout
Design Audit**

	Name	Date	Scale	Revision
Drawn	KM	July 2021	1:250 @ A0	
Designed	KM	July 2021	File No. A13394-PF-ZZ-XX-DR-CD-00500 P04.dwg	
Checked	PW	July 2021	Drawing Status	Preliminary
Approved	TM	July 2021		
Drawing No.	A13394-PF-ZZ-XX-DR-CD-00500			P04



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Topographical Information was provided by 3D Engineering Surveys and Pell Frischmann will not be held liable for any inaccuracies.

Barham Road Roundabout and Northern Link Road designed by Pell Frischmann will not be held liable for any inaccuracies contained within this section.

Partial Western Link Road designed by CALA, Pell Frischmann will not be held liable for any inaccuracies contained within this section.

A29 ROAD CORRIDOR

PROPOSED KERBS

Junction Visibility Splays based on Table 7.1 from Manual for Street. This applies to Western Link, Barnham Station Link and the Hanbury Link.

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
	Miles per hour	10	12	15	16	19	20	25	28	30	31	37
SD (metres)		9	12	15	16	20	22	31	36	40	43	56
SD adjusted for bonnet length. See 7.6.4		11	14	17	18	23	25	33	39	43	45	59

ditional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

[illegible]

Design Principles

standards of Highway design are based on DMRB CD 116 & CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph. The Minimum Road width for A29 is 7.3m, allowing for the flow of two way traffic. The Minimum Road width for East/West link and other link roads is 6m, allowing for the flow of two way traffic. The A29 will have 5m Wide Verges with a 4m wide Segregated Footway/Cycleway, running parallel with the alignment of the carriageway.

Client Reference updated	KM	TM	TM	10.01.22
Scale Bar Added	KM	TM	TM	05.11.21
Minor amendments following comments from team	KM	TM	TM	05.10.21
ISSUED FOR REVIEW	KM	PW	TM	13/08/202
DESCRIPTION	DRN	CHK	APP	DATE

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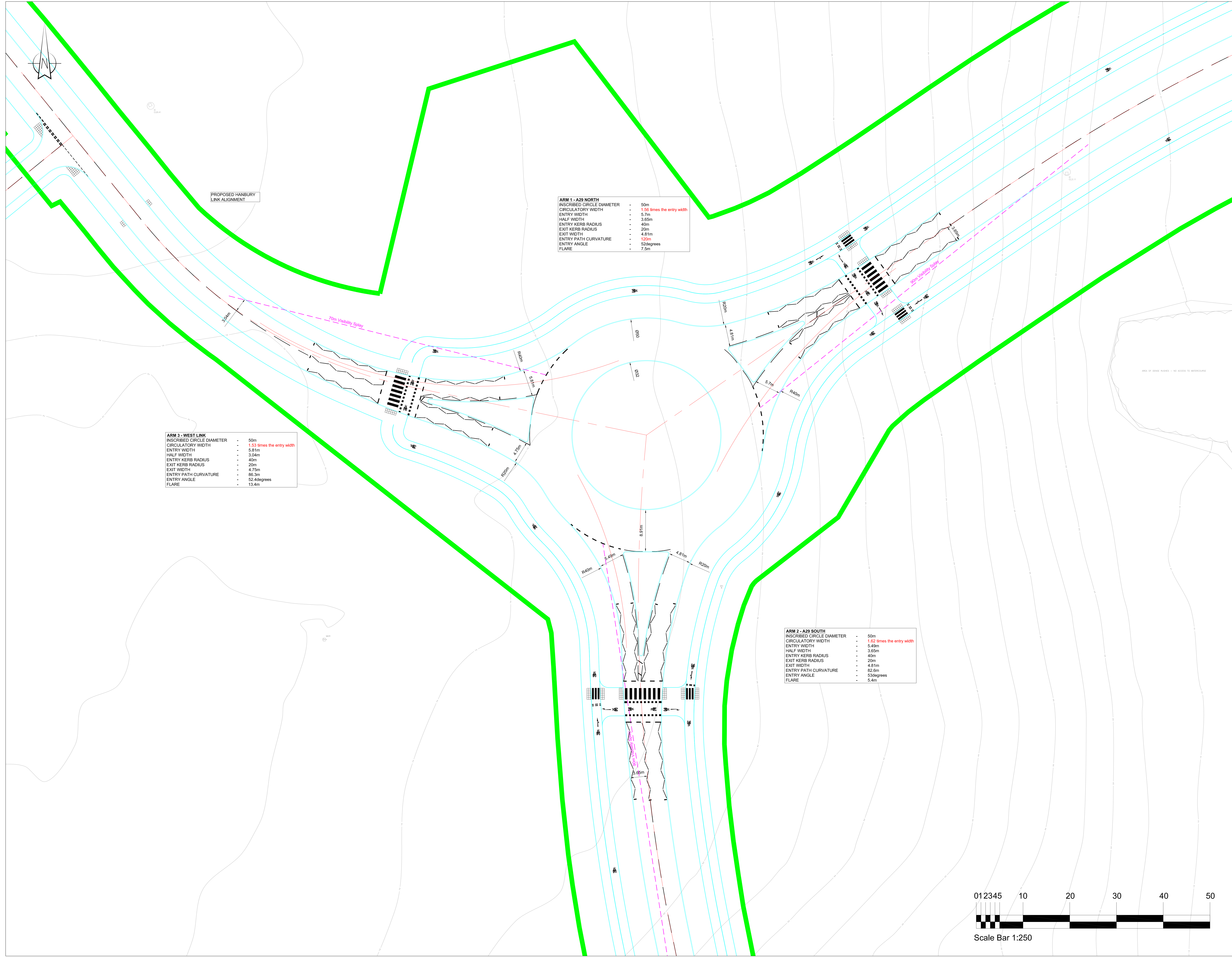
CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd

BEW Parcel SC1

Living Title

A29 Link Road A29-5 Roundabout Design Audit

	Name	Date	Scale	1:250 @ A0
igned	KM	July 2021	File No.	A13394-PF-ZZ-XX-DR-CD-00501 P04.dwg
cked	PW	July 2021	Drawing Status	Preliminary
roved	TM	July 2021		
owing No.				Revision
13394-PF-ZZ-XX-DR-CD-00501				P04



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KEY:

A29 ROAD CORRIDOR

PROPOSED KERBS

Junction Visibility Splays based on Table 7.1 from Manual for Streets. This applies to Western Link, Barnham Station Link and the Hanbury Link.

Table 7.1 Derived SSDs for Streets (figures rounded)

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
Miles per hour		10	12	15	16	19	20	25	28	30	31	37
SSD (metres)		9	12	15	16	20	22	31	36	40	43	56
SSD adjusted for bonnet length: See 7.6.4		11	14	17	18	23	25	33	39	43	45	59

Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

Design Principles

Standards of Highway design are based on DMRB CD 116 & CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph

The Minimum Road width for A29 is 7.3m, allowing for the flow of two way traffic.

The Minimum Road width for East/West link and other link roads is 6m, allowing for the flow of two way traffic.

The A29 will have 5m Wide Verges with a 4m wide Segregated Footway/Cycleway, running parallel with the alignment of the Carriageway.

AREA OF DRIVE RUGS - NO ACCESS TO WITBOURSE

01 23 45 10 20 30 40 50

Scale Bar 1:250

REV	DESCRIPTION	DATE
P04	Client Reference updated	10.01.22
P03	Scale Bar Added	05.11.21
P02	Minor amendments following comments from team	05.10.21
P01	ISSUED FOR REVIEW	13.08.2021

Pell Frischmann

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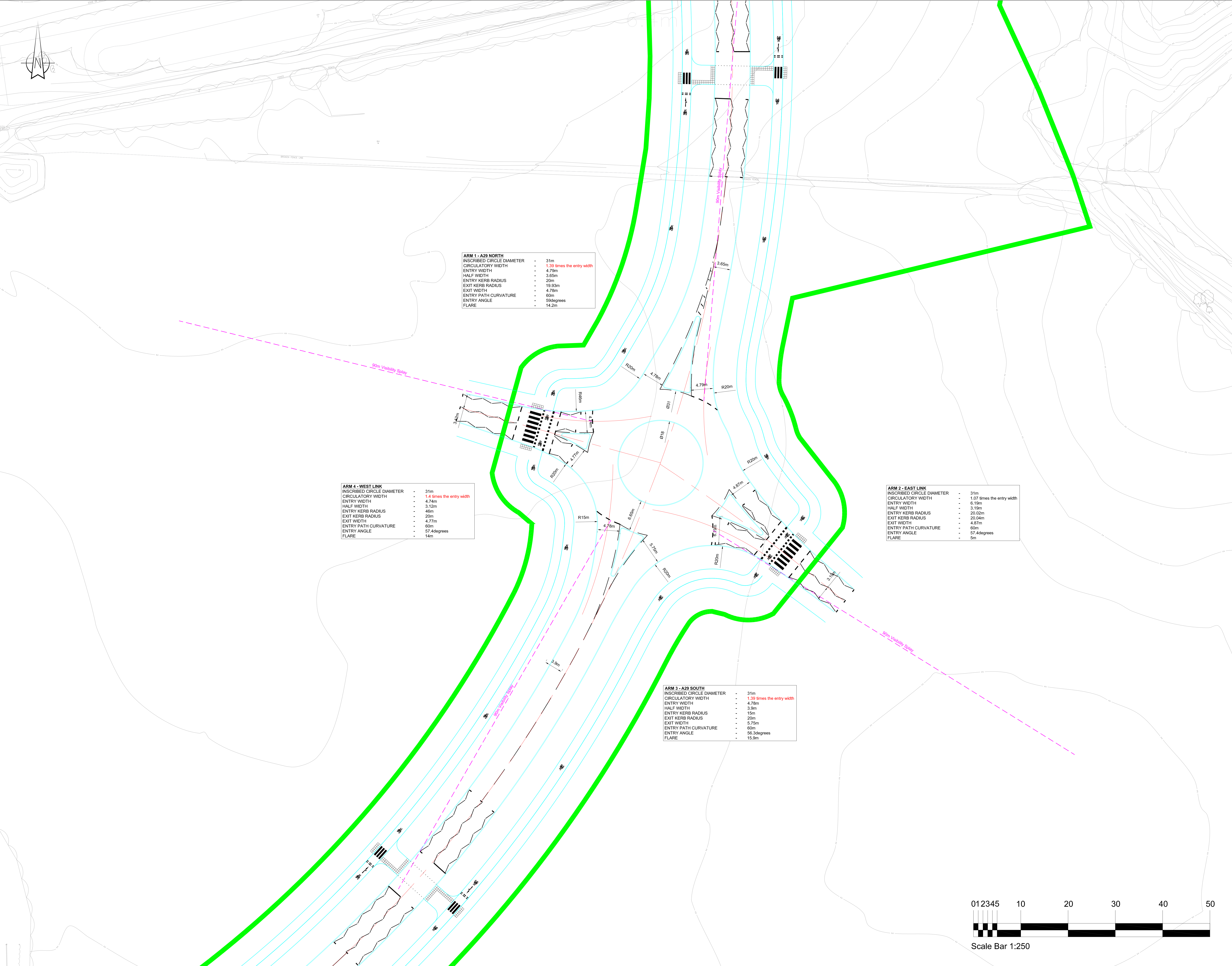
Client: **CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd**

Project: **BEW Parcel SC1**

Drawing Title: **A29 Link Road
A29-9 Roundabout
Design Audit**

	Name	Date	Scale	File No.
Drawn	KM	July 2021	1:250 @ A0	
Designed	KM	July 2021		A13394-PF-ZZ-XX-DR-CD-00502 P04.dwg
Checked	PW	July 2021	Drawing Status	
Approved	TM	July 2021		

Drawing No. **A13394-PF-ZZ-XX-DR-CD-00502** Revision **P04**



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KEY:

A29 ROAD CORRIDOR

PROPOSED KERBS

Junction Visibility Splays based on Table 7.1 from Manual for Streets. This applies to all junctions on A29 Link Road.

Table 7.1 Derived SSDs for Streets (figures rounded)

Speed	Kilometres per hour	16	20	24	25	30	32	40	45	48	50	60
Miles per hour	10	12	15	16	19	20	25	28	30	31	37	
SSD (metres)	9	12	15	16	20	22	31	36	40	43	56	
SSD adjusted for bonnet length. See 7.6.4	11	14	17	18	23	25	33	39	43	45	59	

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SSD adjusted for bonnet length. See 7.6.4	11	14	17	18	23	25	33	39	43	45	59	

Design Principles

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Client
**CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd**

Project
BEW Parcel SC1

Drawing Title
**A29 Link Road
A29-11 Roundabout
Design Audit**

	Name	Date	Scale	Revision
Drawn	KM	July 2021	1:250 @ A0	
Designed	KM	July 2021	File No. A13394-PF-ZZ-XX-DR-CD-00503 P04.dwg	
Checked	PW	July 2021	Drawing Status	Preliminary
Approved	TM	July 2021		
Drawing No.	A13394-PF-ZZ-XX-DR-CD-00503			P04



ARM 3 - WEST LINK
INSCRIBED CIRCLE DIAMETER - 45m
CIRCULATORY WIDTH - 1.16 times the entry width
ENTRY WIDTH - 4.74m
HALF WIDTH - 2.73m
ENTRY KERB RADIUS - 20m
EXIT KERB RADIUS - 60m
EXIT WIDTH - 4.91m
ENTRY PATH CURVATURE - 50m
ENTRY ANGLE - 48degrees
FLARE - 15.9m

ARM 1 - A29 NORTH
INSCRIBED CIRCLE DIAMETER - 45m
CIRCULATORY WIDTH - 1.14 times the entry width
ENTRY WIDTH - 4.82m
HALF WIDTH - 3.65m
ENTRY KERB RADIUS - 45m
EXIT KERB RADIUS - 95m
EXIT WIDTH - 4.78m
ENTRY PATH CURVATURE - 91m
ENTRY ANGLE - 42degrees
FLARE - 21.7m

ARM 2 - A29 SOUTH
INSCRIBED CIRCLE DIAMETER - 45m
CIRCULATORY WIDTH - 1.13 times the entry width
ENTRY WIDTH - 4.89m
HALF WIDTH - 2.7m
ENTRY KERB RADIUS - 30m
EXIT KERB RADIUS - 102m
EXIT WIDTH - 4.67m
ENTRY PATH CURVATURE - 100m
ENTRY ANGLE - 48.7degrees
FLARE - 40.2m

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- A29 ROAD CORRIDOR**
- PROPOSED KERBS**

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Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 7.1 from DMRB CD 109. This applies to all junctions on A29 Link Road.

DMRB design speed related parameters

Design speed (km/h)	100	80	60	50	40	30	20	10
Design speed (mph)	62	50	37	31	25	19	12	6
Design speed (m/s)	27.8	22.3	16.7	13.9	11.2	8.5	5.6	2.8
Design speed (ft/s)	85.0	69.3	52.1	43.2	34.3	26.2	17.1	8.6
Design speed (mi/h)	62.1	50.0	37.3	31.1	24.8	18.9	11.8	5.9
Design speed (km/h)	100	80	60	50	40	30	20	10
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Design Principles

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Client
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Project
BEW Parcel SC1

Drawing Title
**A29 Link Road
A29-13 Roundabout
Design Audit**

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A29 ROAD CORRIDOR

PROPOSED KERBS

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Speed	16	20	24	25	30	32	40	45	48	50	60
Kilometres per hour											
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SSD adjusted for bonnet length. See 7.6.4	11	14	17	18	23	25	33	39	43	45	59

Additional features will be needed to achieve low speeds

Junction Visibility Splays based on Table 2.10 from DMRB CD 109. This applies to all junctions on A29 Link Road.

Design speed (km/h)	100	80	60	50	40	30	20	10
Minimum sight triangle (m)	200	150	100	80	60	40	30	20
Minimum sight triangle (ft)	656	492	328	262	197	131	98	66
Minimum sight triangle (m) - urban	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - urban	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural	200	150	100	80	60	40	30	20
Minimum sight triangle (ft) - rural	656	492	328	262	197	131	98	66
Minimum sight triangle (m) - rural - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m - 100m - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m - 100m - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m - 100m - 100m - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m - 100m - 100m - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m - 100m - 100m - 100m - 100m	492	328	229	164	131	98	66	33
Minimum sight triangle (m) - rural - 100m - 100m - 100m - 100m - 100m - 100m - 100m	150	100	70	50	40	30	20	10
Minimum sight triangle (ft) - rural - 100m - 100m - 100m - 100m - 100m - 100m - 100m	492	328	229	164	131	98	66	33

Design Principles

Standards of Highway design are based on DMRB CD 116 & CD 109 and Manual for Streets to Road Design Speed of 30 mph for A29. East/West link and other link roads based on 20mph. The Minimum Road width for A29 is 7.3m, allowing for the flow of two way traffic. The Minimum Road width for East/West link and other link roads is 6m, allowing for the flow of two way traffic. The A29 will have 5m Wide Verges with a 4m wide Segregated Footway/Cycleway, running parallel with the alignment of the Carriageway.

REV	DESCRIPTION	DATE
P04	Client Reference updated	10/01/22
P03	Scale Bar Added	05/11/21
P02	Minor amendments following comments from team	05/10/21
P01	ISSUED FOR REVIEW	13/08/2021

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Client

CC Projects
Ashmarden Ltd
Hanbury (PM) Ltd

Project

BEW Parcel SC1

Drawing Title

A29 Link Road
A29-14 Roundabout
Design Audit

Name	Date	Scale
Drawn	KM	July 2021
Designed	KM	July 2021
Checked	PW	July 2021
Approved	TM	July 2021

Drawing No. **A13394-PF-ZZ-XX-DR-CD-00505** Revision **P04**