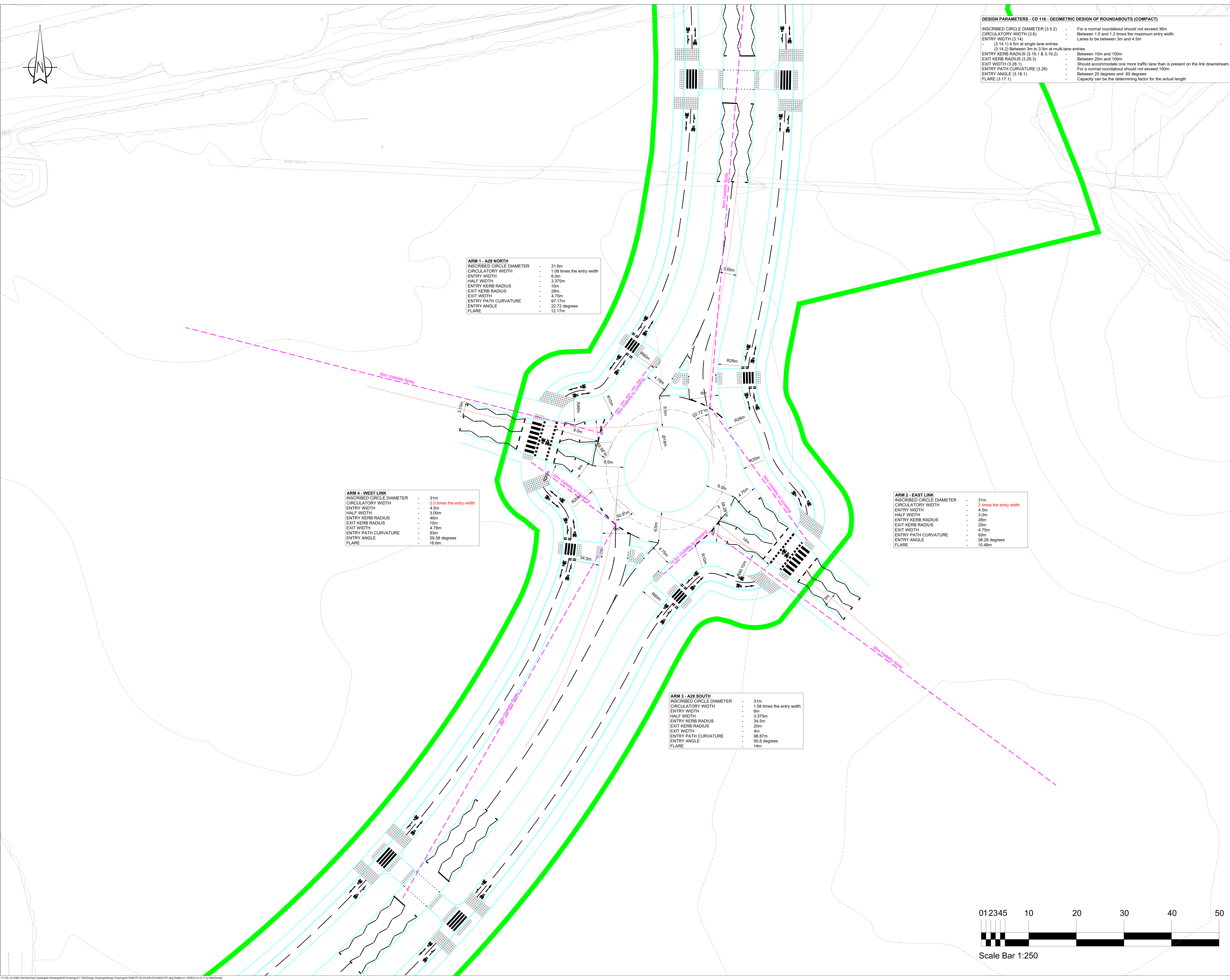




DESIGN PARAMETERS - CD 116 - GEOMETRIC DESIGN OF ROUNDABOUTS (COMPACT)		
INScribed CIRCLE DIAMETER (3.5.2)	-	For a normal roundabout should not exceed 36m
CIRCULATORY WIDTH (3.6)	-	Between 1.0 and 1.2 times the maximum entry width
ENTRY WIDTH (3.14)	-	Lanes to be between 3m and 4.5m
ENTRY WIDTH (3.14)	-	(3.14.1) 4.5m at single lane entries
ENTRY KERB RADIUS (3.19.1 & 3.19.2)	-	Between 10m and 100m
EXIT KERB RADIUS (3.29.3)	-	Between 20m and 100m
EXIT WIDTH (3.28.1)	-	Should accommodate one more traffic lane than is present on the link downstream.
ENTRY PATH CURVATURE (3.28)	-	For a normal roundabout should not exceed 100m
ENTRY ANGLE (3.16.1)	-	Between 20 degrees and 60 degrees
FLARE (3.17.1)	-	Capacity can be the determining factor for the actual length

ARM 1 - A29 NORTH	
INScribed CIRCLE DIAMETER	- 31.6m
CIRCULATORY WIDTH	- 1.08 times the entry width
ENTRY WIDTH	- 6.0m
HALF WIDTH	- 3.375m
ENTRY KERB RADIUS	- 10m
EXIT KERB RADIUS	- 28m
EXIT WIDTH	- 4.75m
ENTRY PATH CURVATURE	- 97.17m
ENTRY ANGLE	- 22.72 degrees
FLARE	- 12.17m

ARM 4 - WEST LINK	
INScribed CIRCLE DIAMETER	- 31m
CIRCULATORY WIDTH	- 2.0 times the entry width
ENTRY WIDTH	- 4.5m
HALF WIDTH	- 3.00m
ENTRY KERB RADIUS	- 46m
EXIT KERB RADIUS	- 10m
EXIT WIDTH	- 4.78m
ENTRY PATH CURVATURE	- 93m
ENTRY ANGLE	- 59.58 degrees
FLARE	- 16.6m

ARM 3 - A29 SOUTH	
INScribed CIRCLE DIAMETER	- 31m
CIRCULATORY WIDTH	- 1.08 times the entry width
ENTRY WIDTH	- 6m
HALF WIDTH	- 3.375m
ENTRY KERB RADIUS	- 34.5m
EXIT KERB RADIUS	- 20m
EXIT WIDTH	- 4m
ENTRY PATH CURVATURE	- 98.87m
ENTRY ANGLE	- 50.8 degrees
FLARE	- 14m

ARM 2 - EAST LINK	
INScribed CIRCLE DIAMETER	- 31m
CIRCULATORY WIDTH	- 2 times the entry width
ENTRY WIDTH	- 4.5m
HALF WIDTH	- 3.0m
ENTRY KERB RADIUS	- 28m
EXIT KERB RADIUS	- 20m
EXIT WIDTH	- 4.75m
ENTRY PATH CURVATURE	- 93m
ENTRY ANGLE	- 58.28 degrees
FLARE	- 15.48m

- NOTES:
- Where the Contractor undertakes or engages a third party to undertake temporary works design, or varies the Pell Frischmann design in any way, then the Contractor will take full responsibility and liability for all design aspects, including a Design Risk Assessment. The Contractor shall inform Pell Frischmann of any proposed variances to the design.
 - This drawing shall be read in conjunction with all other Electrical, Mechanical, Public Health & Architectural Drawings & The Specification.
 - Topographical Information was provided by 3D Engineering Surveys and Pell Frischmann will not be held liable for any inaccuracies.
 - Barnham Road Roundabout and Northern Link Road designed by WSP. 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.

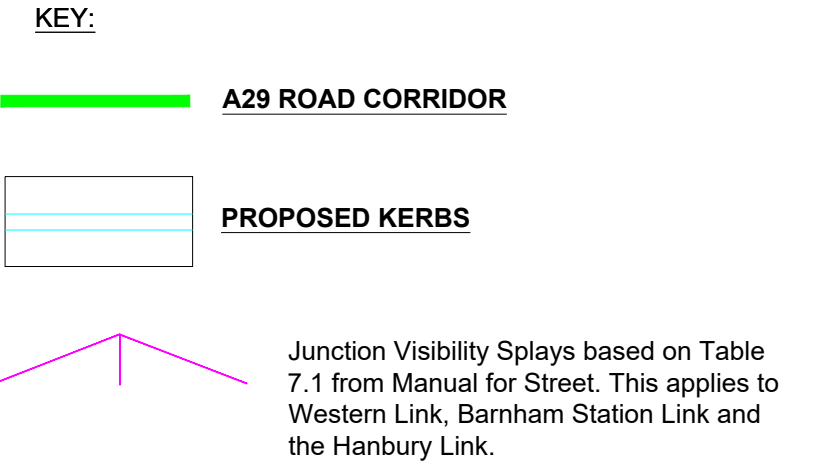


Table 7.1 Derived SSDs for Streets (figures rounded)	
Speed Kilometres per hour	16 20 24 25 30 32 40 45 48 50 60
Miles per hour	10 12 15 16 19 20 25 28 30 31 37
SSD (metres)	9 12 15 16 20 22 31 36 40 43 56
SSD adjusted for bonnet length. See 7.6.4	11 14 17 18 23 25 33 39 43 45 59

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.

NBS&B minor road roundabout parameters	
Design speed (km/h)	10 15 20 25 30 35 40 45 50 60
Proposed sight triangle (metres)	200 250 300 350 400 450 500 550 600 650
Minimum road width (metres)	12.5 15 17.5 20 22.5 25 27.5 30 32.5 35
Minimum entry width (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum exit width (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum kerb radius (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum exit kerb radius (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum entry path curvature (m)	100 125 150 175 200 225 250 275 300 325
Minimum exit path curvature (m)	100 125 150 175 200 225 250 275 300 325
Minimum entry angle (degrees)	20 25 30 35 40 45 50 55 60 65
Minimum exit angle (degrees)	20 25 30 35 40 45 50 55 60 65
Minimum flare (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum kerb flare (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum kerb flare angle (degrees)	20 25 30 35 40 45 50 55 60 65
Minimum kerb flare radius (metres)	10 12.5 15 17.5 20 22.5 25 27.5 30 32.5
Minimum kerb flare path curvature (m)	100 125 150 175 200 225 250 275 300 325
Minimum kerb flare entry angle (degrees)	20 25 30 35 40 45 50 55 60 65
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