HIGHWAY CONSTRUCTION DETAILS
(700 SERIES)

VOLUME 2:
CYCLEWAYS

Warwickshire County Council

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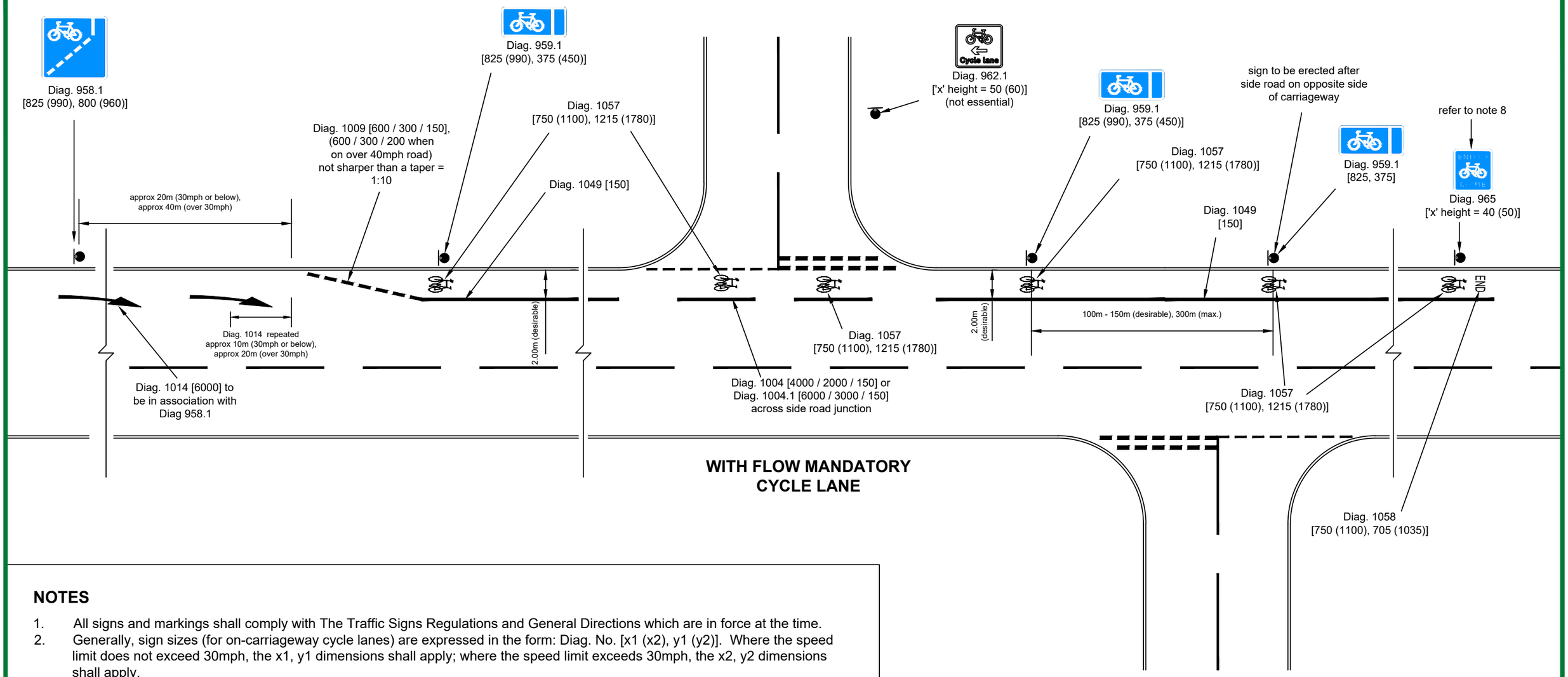
HIGHWAY CONSTRUCTION DETAILS (700 SERIES)
VOLUME 2: CYCLEWAYS

CONTENTS



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)]. Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. Repeated Diagram 959.1 to be 825mm x 375mm
8. Diagram 965 should only be used if the cycle lane ends at a hazardous location where cyclists would need to take extra care.
9. The recommended width for mandatory cycle lane is 2.5m on busy roads, or where traffic travels in excess of 40mph.
10. WCC recommends that all cycle lanes are put in at 2.0m (generally desirable) and 1.5m (absolute minimum).
11. The feeder cycle lane into the advanced stop line will remain at 1.5m desirable and 1.2m absolute minimum.
12. For all mandatory cycle lanes, a Traffic Regulation Order is required.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: MANDATORY CYCLE LANES

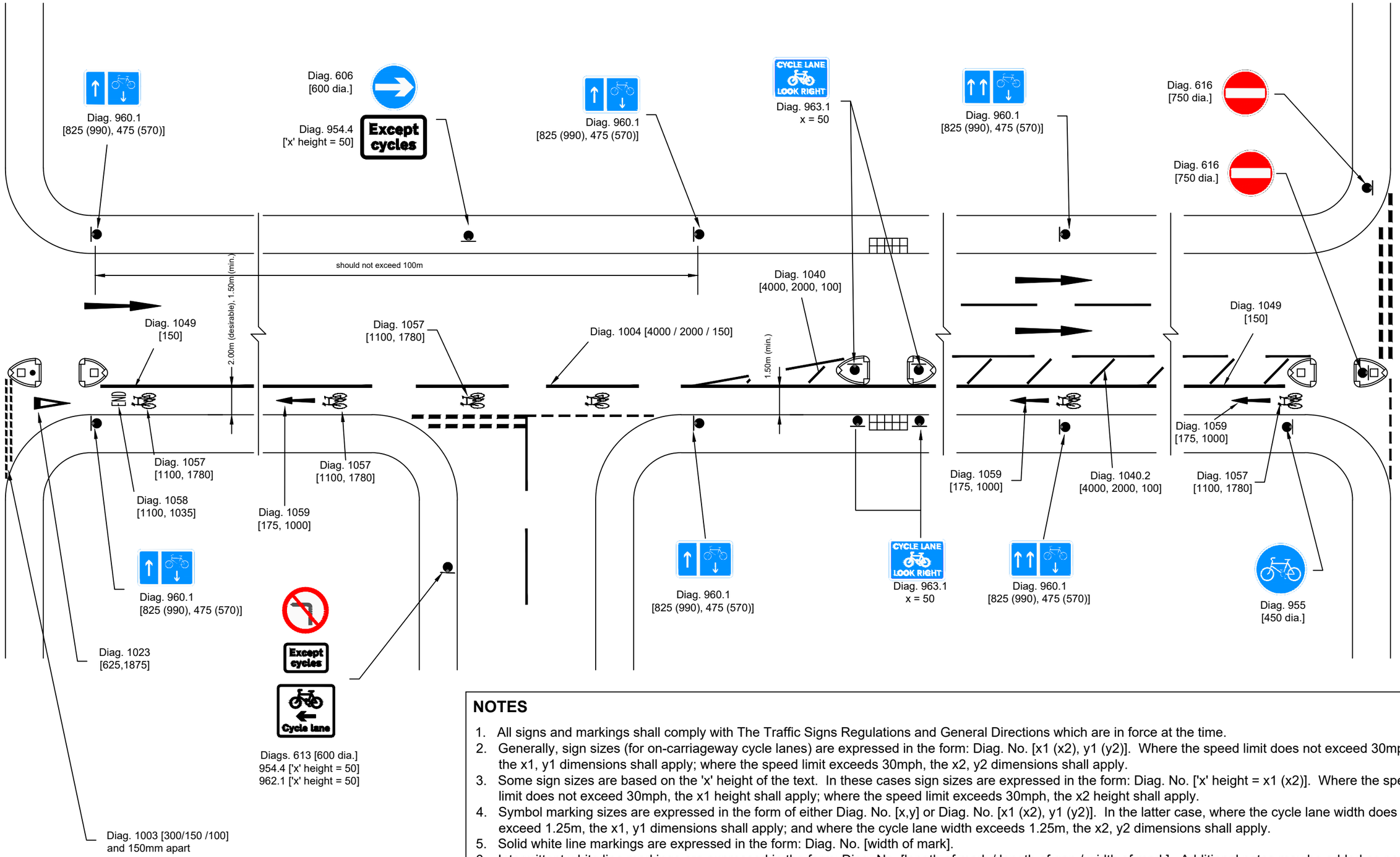
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.1	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)]. Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. On Diag. 960.1 signs, the number of traffic arrows must represent the number of traffic lanes.
8. For all mandatory cycle lanes, a Traffic Regulation Order is required.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: CONTRA-FLOW

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.2	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

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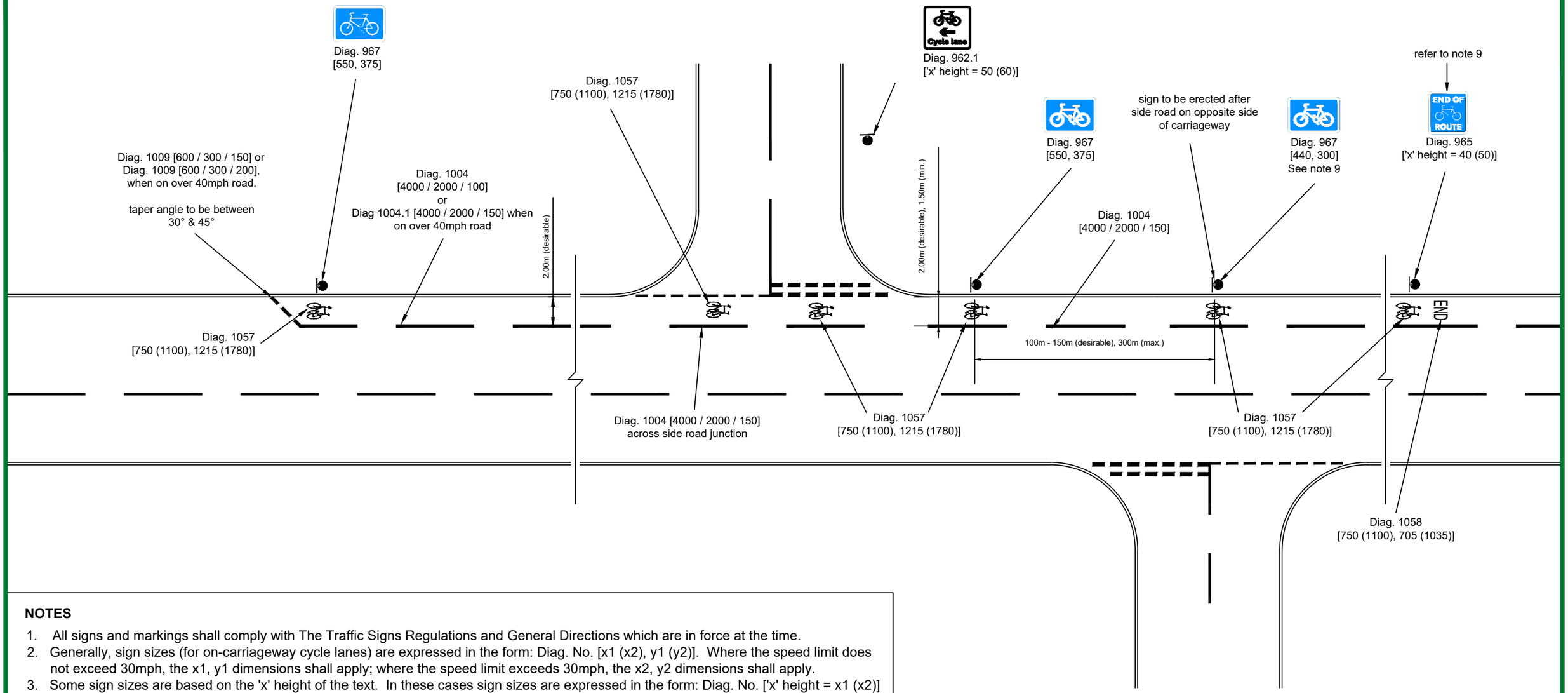

NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)] Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. In association with diagram 1004 and 1004.1 in a two-way road, the width of the line should never be wider than the centre line.
8. Repeated Diagram 967 to be at the smaller size of 440mm x 300mm
9. Diagram 965 should only be used if the cycle lane ends at a hazardous location where cyclists would need to take extra care.
10. The recommended width for advisory cycle lanes is 2.5m on busy roads, or where traffic travels in excess of 40mph.
11. WCC recommends that all cycle lanes are put in at 2.0m (generally desirable) and 1.5m (absolute minimum).
12. The feeder cycle lane into the advanced stop line will remain at 1.5m desirable and 1.2m absolute minimum.
13. If in localised carriage restrictions, designers can continue a full width advisory lane alongside a substandard all purpose lane. Or, the cycle lane can be discontinued.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: ADVISORY CYCLE LANES

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.3	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

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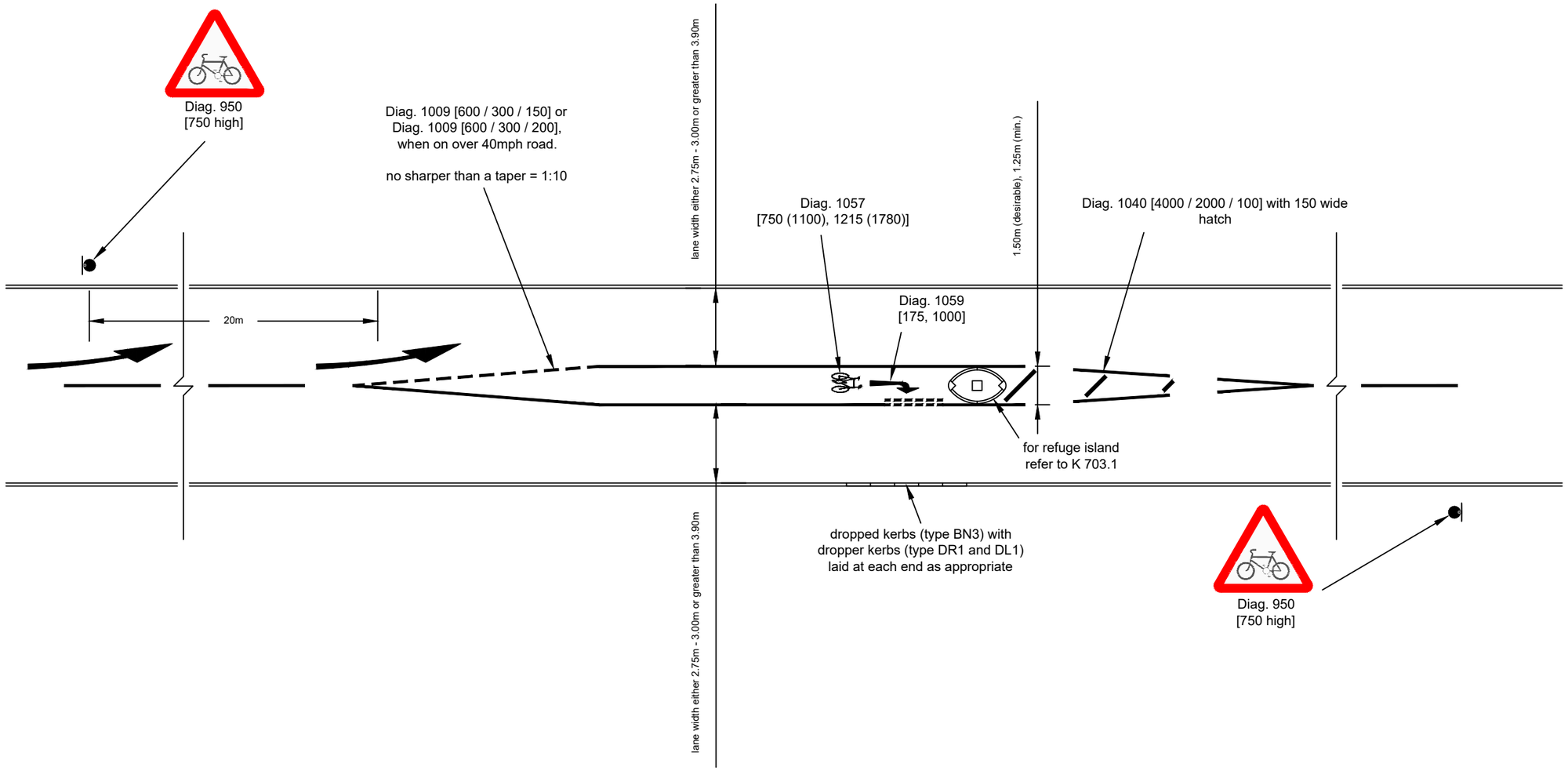


NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)]. Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. This arrangement is not recommended for heavily trafficked routes, or routes where the speed limit is greater than 30mph.
8. Visibility to and from the right turn lane shall be no less than the desirable minimum stopping sight distance that applies.
9. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone. Dropped kerbs shall be flush with the carriageway surface.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: MANDATORY RIGHT TURN CYCLE LANES

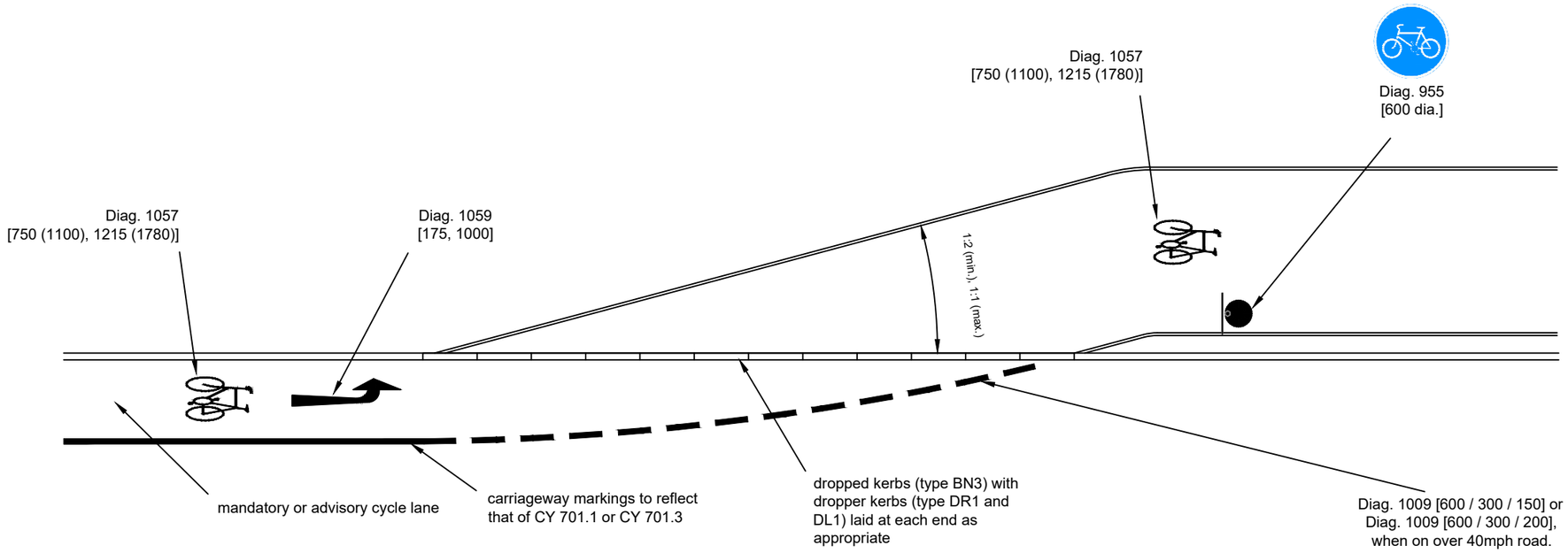
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.4	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)]. Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. Where the cycle lane leaves the carriageway and joins a combined cycleway and footway, the signs and markings shown on CY 702.1 ,CY 702.2 or CY 702.3 (as appropriate) shall apply.
8. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone. Dropped kerbs shall be flush with the carriageway surface.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: LEAVING THE CARRIAGEWAY

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

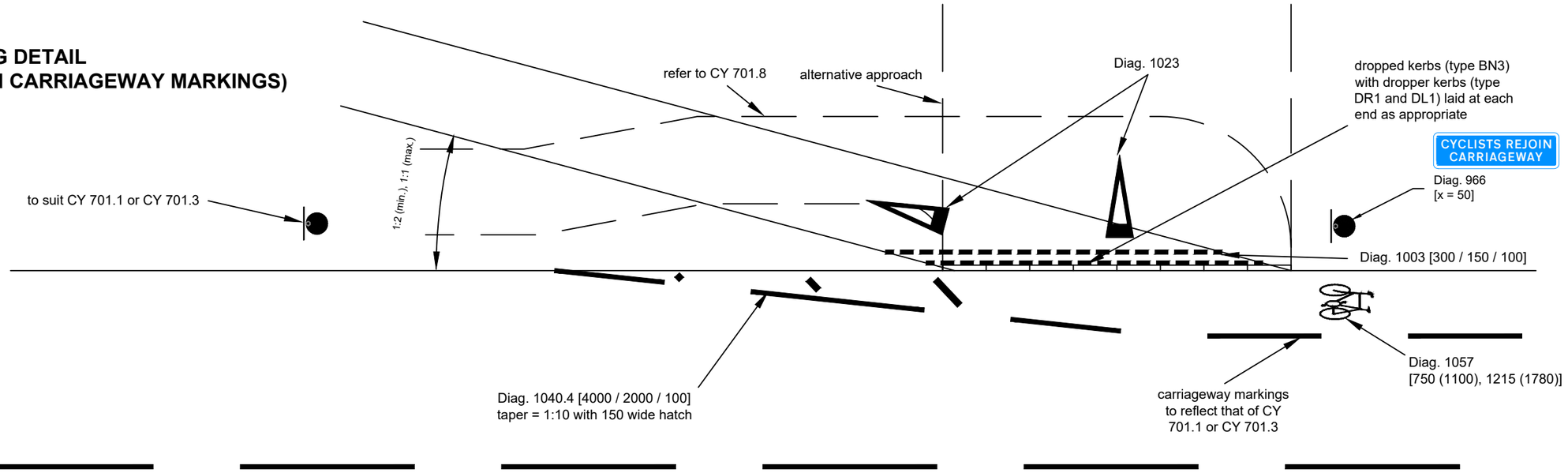
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.5	A3	APR 2016

PREVIOUS ISSUES

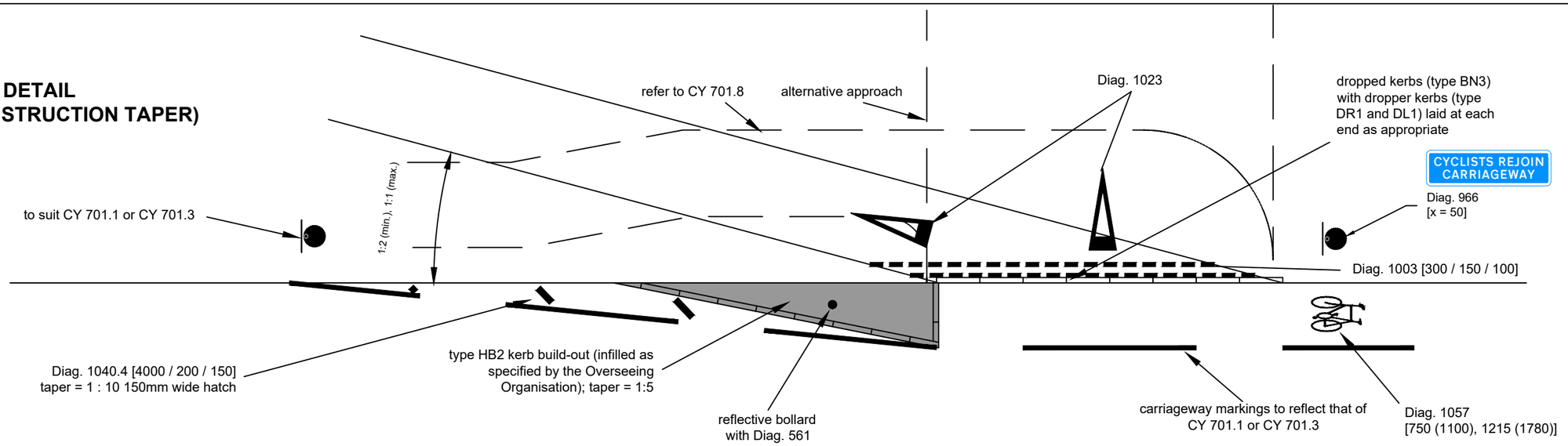
1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm

TYPE A JOINING DETAIL
(WITH TAPER IN CARRIAGEWAY MARKINGS)



TYPE B JOINING DETAIL
(WITH FULL CONSTRUCTION TAPER)



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
3. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
4. One no. Type 2A road gully shall be installed at the upstream end of the dropped kerb zone. Dropped kerbs shall be flush with the carriageway surface. Gully gratings shall be 'cycle friendly' and proposals shall be approved in advance by the overseeing organisation.
5. Type B shall not be used on roads over 30pmh speed limit.
6. Drawing should be read in conjunction will CY 701.8

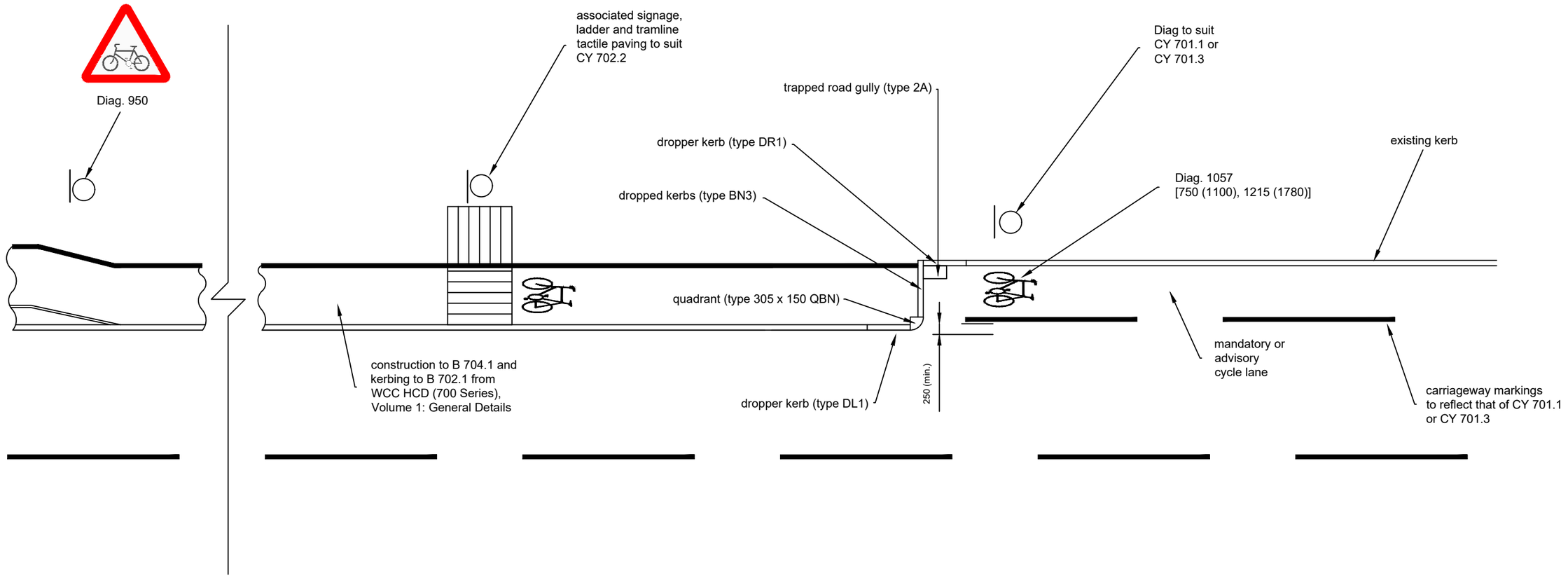
ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)	SECTION: CYCLEWAYS	TITLE: ON-CARRIAGEWAY CYCLE LANES: JOINING THE CARRIAGEWAY	DRAWN: RJP	CHECKED: LJ	APPROVED: AC
			DRAWING NUMBER: CY 701.6	SHEET SIZE: A3	ISSUE: 4 / ISSUE DATE: APR 2016

PREVIOUS ISSUES
1 APR 2004
2 JAN 2009
3 OCT 2013

0mm 50mm 100mm 150mm 200mm



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
3. One no. type 2A road gully shall be installed as shown.
4. Dropped kerbs shall have an upstand of 0-6mm to the carriageway surface.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: PARALLEL CYCLE LANES JOINING THE CARRIAGEWAY

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

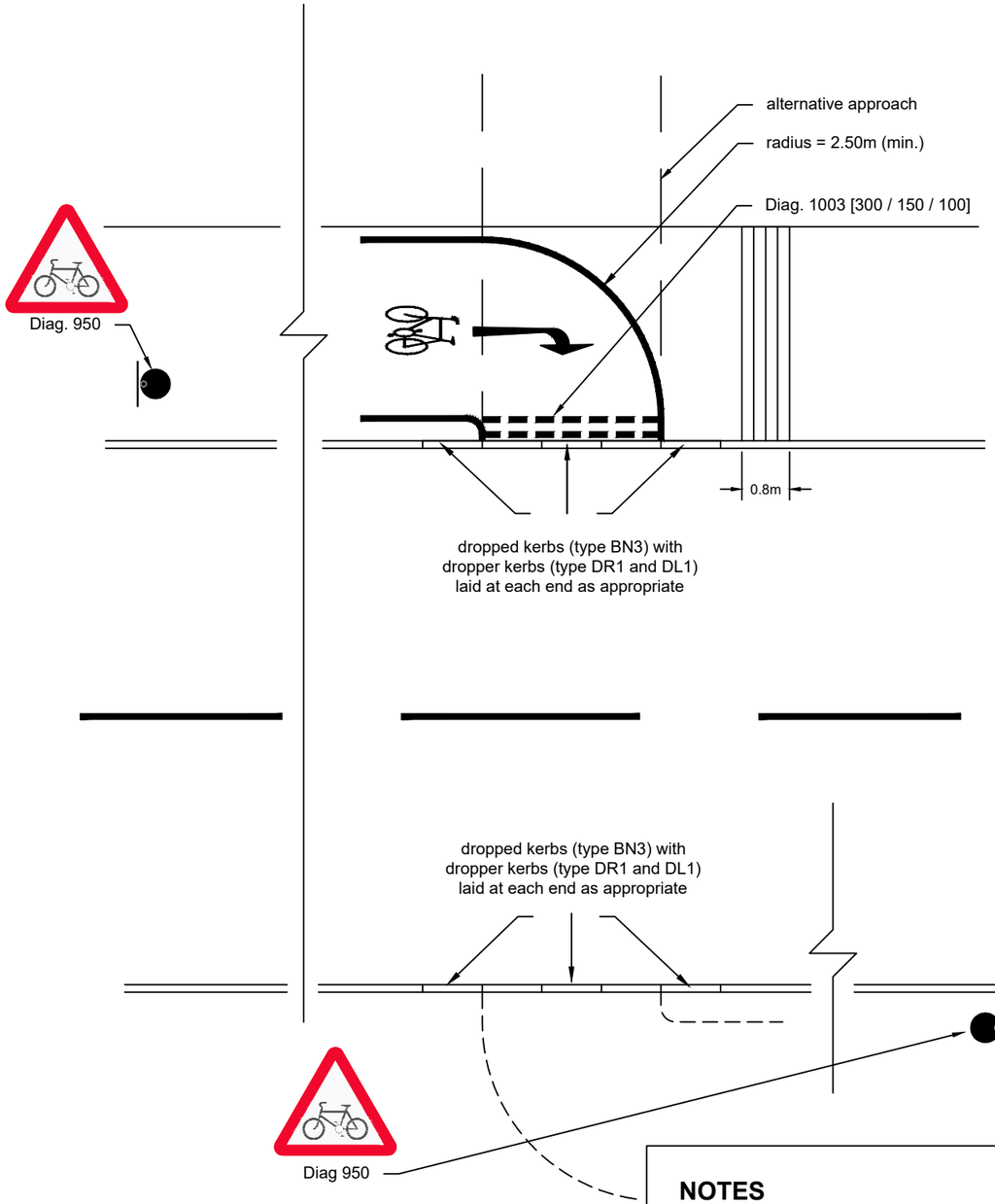
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.7	A3	APR 2016

PREVIOUS ISSUES

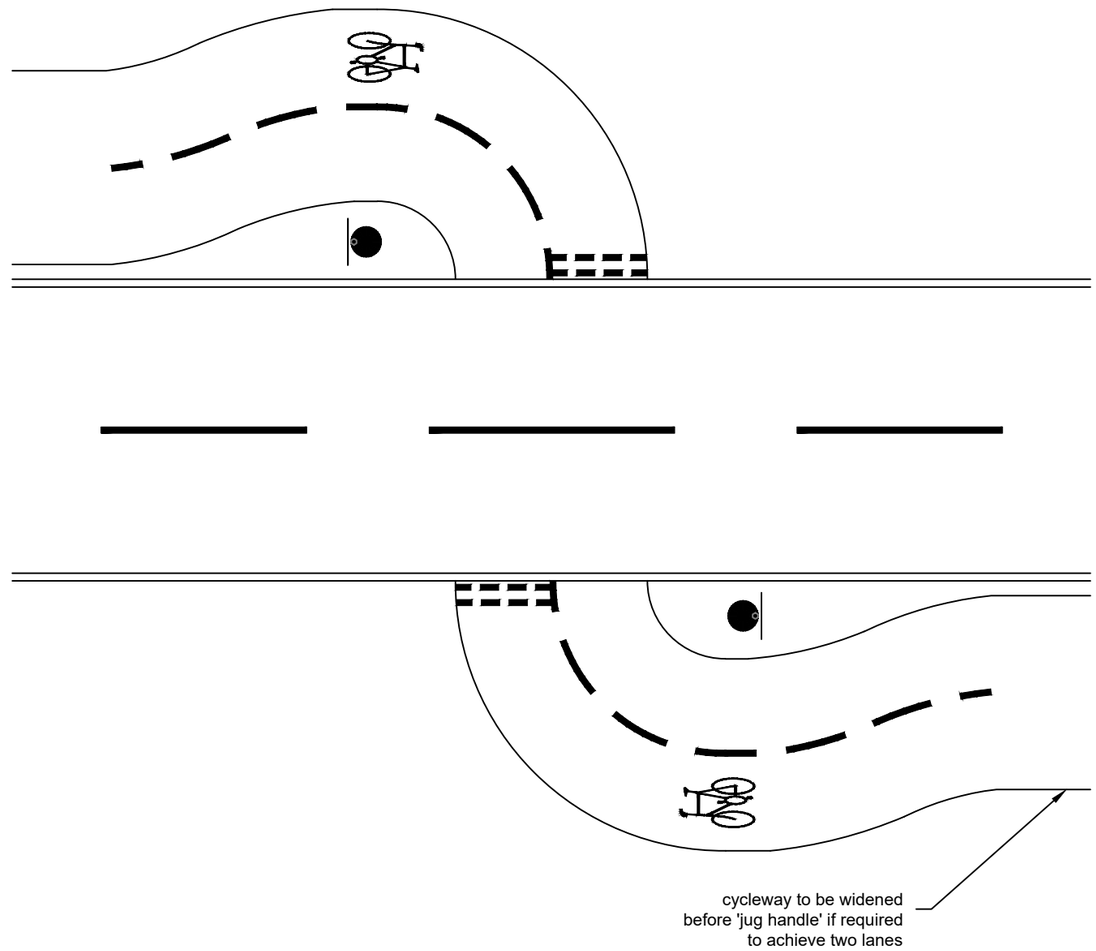
1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm

ABSOLUTE MINIMUM



IDEAL ARRANGEMENT



NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
3. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
4. Where the cycle lane leaves the carriageway and joins a combined cycleway and footway, the signs and markings shown on CY 702.1 ,CY 702.2 or CY 702.3 (as appropriate) shall apply.
5. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone. Dropped kerbs shall be flush with the carriageway surface.
6. Diag. 950 shall be in accordance with The Traffic Signs Manual Chapter 4.

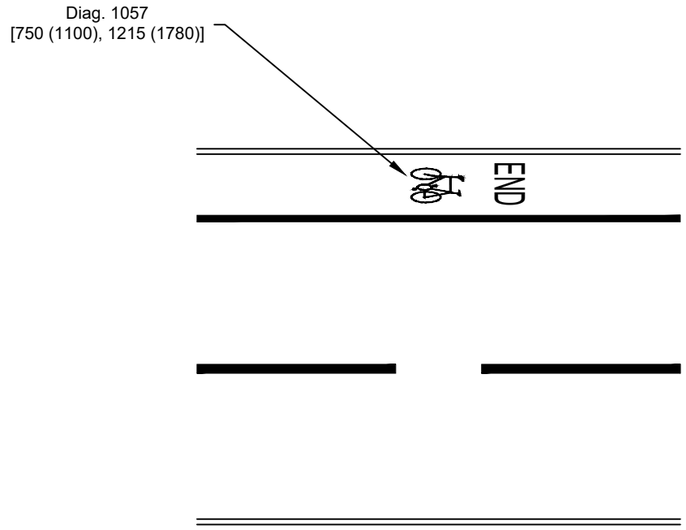
ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

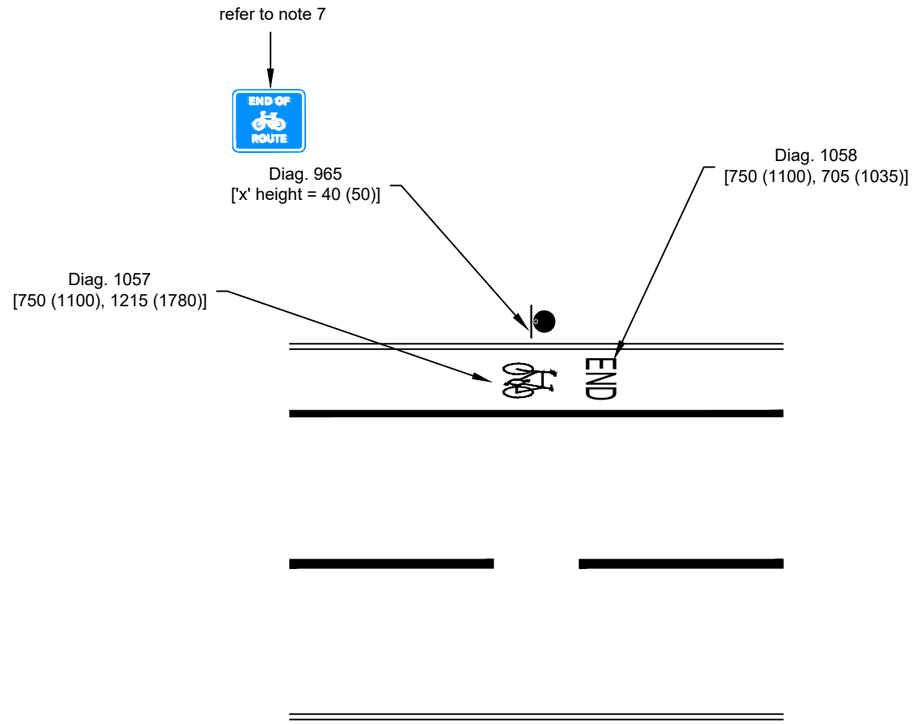
HIGHWAY CONSTRUCTION DETAILS (HCD-700)	SECTION: CYCLEWAYS	TITLE: OFF-CARRIAGEWAY CYCLE LANES: 'JUG HANDLE' APPROACH TO CROSSINGS	DRAWN: RJP	CHECKED: LJ	APPROVED: AC	ISSUE: 4
			DRAWING NUMBER: CY 701.8	SHEET SIZE: A3	ISSUE DATE: APR 2016	

PREVIOUS ISSUES
1 APR 2004
2 JAN 2009
3 OCT 2013

0mm 50mm 100mm 150mm 200mm



①



②

HIERARCHY

The END marking to diagram 1058 must always be used with the cycle symbol diagram 1057. Together, they can be used with or without the END OF ROUTE sign.

The hierarchy in order of increasing signing is therefore:

1. it ends with the cycle symbol to diagram 1057 and the END marking to diagram 1058;
2. it ends with diagram 1057 and diagram 1058, accompanied by the END OF ROUTE sign to diagram 965.

Note : the CYCLISTS DISMOUNT sign (diagram 966) should only be used if it is unsafe or impractical to continue riding.

NOTES

1. All signs and markings shall comply with The Traffic Signs Regulations and General Directions which are in force at the time.
2. Generally, sign sizes (for on-carriageway cycle lanes) are expressed in the form: Diag. No. [x1 (x2), y1 (y2)]. Where the speed limit does not exceed 30mph, the x1, y1 dimensions shall apply; where the speed limit exceeds 30mph, the x2, y2 dimensions shall apply.
3. Some sign sizes are based on the 'x' height of the text. In these cases sign sizes are expressed in the form: Diag. No. ['x' height = x1 (x2)]. Where the speed limit does not exceed 30mph, the x1 height shall apply; where the speed limit exceeds 30mph, the x2 height shall apply.
4. Symbol marking sizes are expressed in the form of either Diag. No. [x,y] or Diag. No. [x1 (x2), y1 (y2)]. In the latter case, where the cycle lane width does not exceed 1.25m, the x1, y1 dimensions shall apply; and where the cycle lane width exceeds 1.25m, the x2, y2 dimensions shall apply.
5. Solid white line markings are expressed in the form: Diag. No. [width of mark].
6. Intermittent white line markings are expressed in the form: Diag. No. [length of mark / length of gap / width of mark]. Additional notes may be added as necessary.
7. Diagram 965 should only be used if the cycle lane ends at a hazardous location where cyclists would need to take extra care.
8. The Hierarchy can be applied to shared use facilities.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

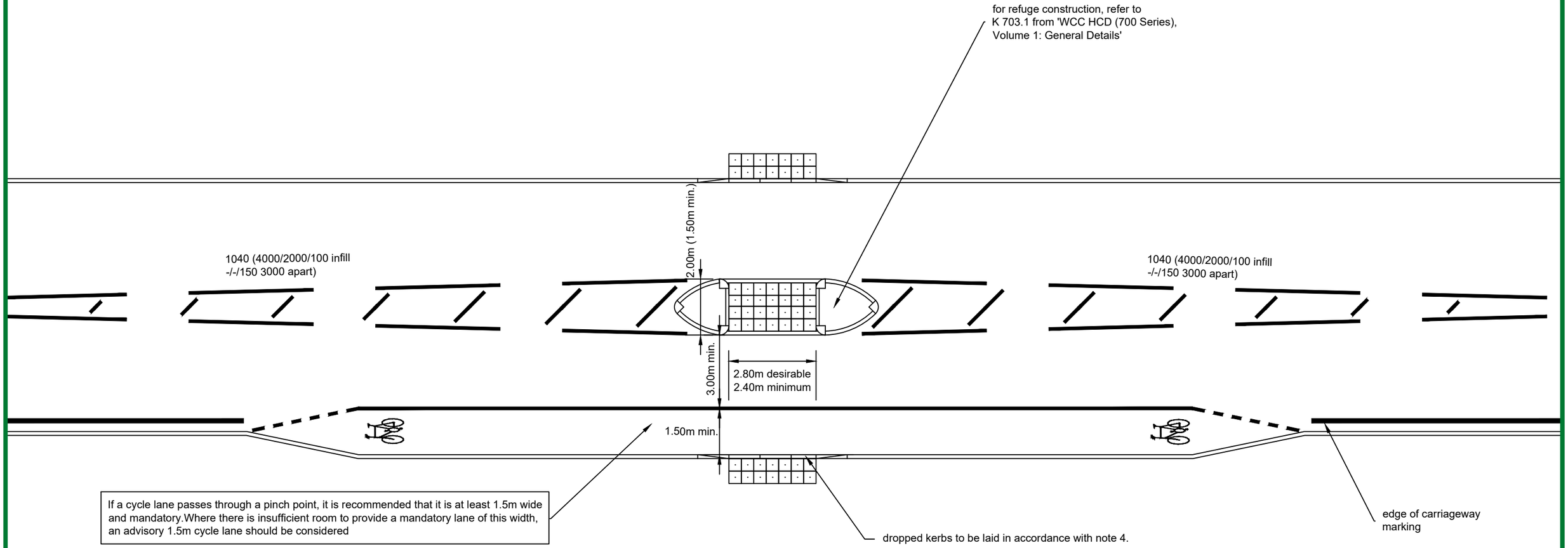
TITLE: HOW AN ADVISORY OR MANDATORY CYCLE ROUTE SHOULD END

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.9	A3	APR 2016

PREVIOUS ISSUES: 1 OCT 2013

0mm 50mm 100mm 150mm 200mm



NOTES

1. If the running lane is less than 3.0m, the cycle lane should be stopped either side of the refuge.
2. If in localised carriage restrictions, designers can continue a full width advisory lane alongside a sub standard all purpose lane, or the cycle lane can be discontinued. A narrow cycle lane should not be used.
3. Tactile paving shall comply with Guidance on the Use of Tactile Paving Surfaces (DfT) current edition.
4. Consideration should be given to the provision of Diag. 950 "Cycle" warning signs.
5. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone.
6. Dropped kerbs shall be laid with an upstand of 0-6mm to the carriageway surface.
7. For all mandatory cycle lanes, a Traffic Regulation Order is required.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: PEDESTRIAN REFUGES

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

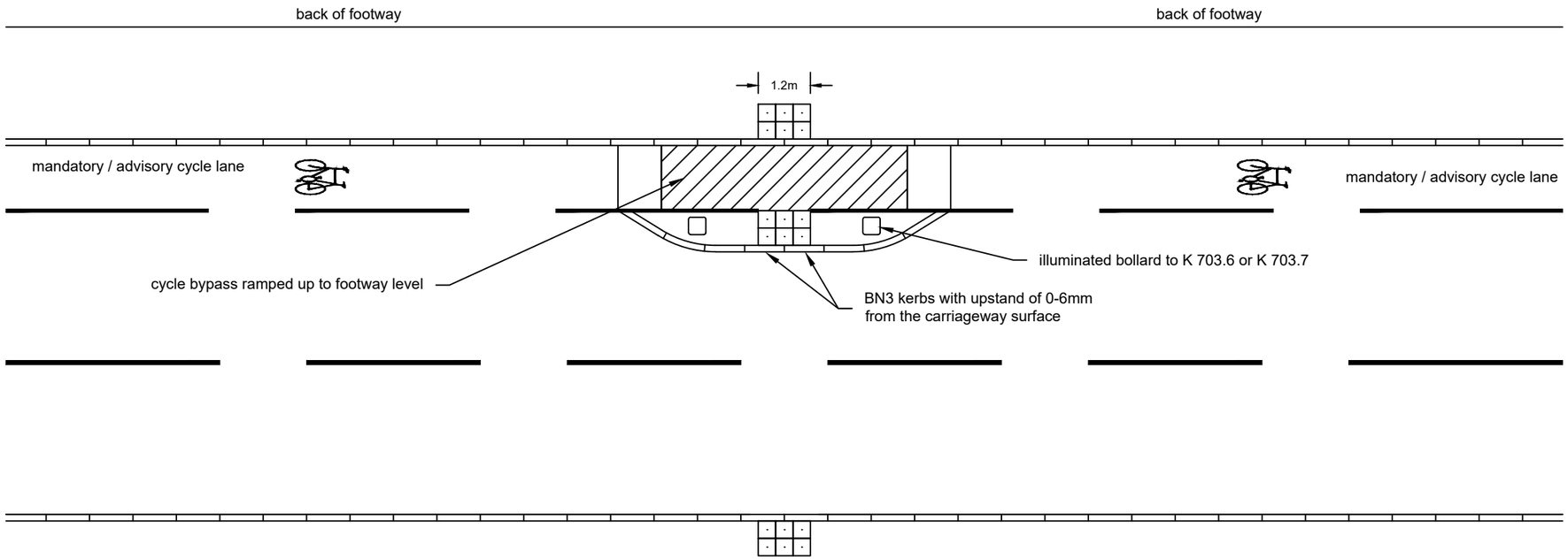
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.10	A3	APR 2016

PREVIOUS ISSUES

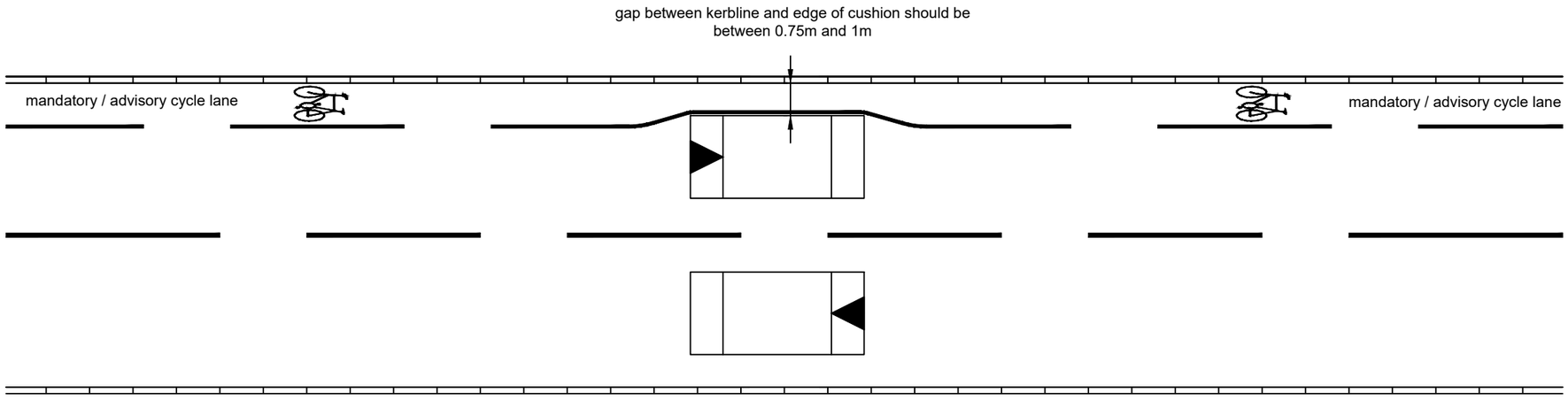
1	OCT 2013

0mm 50mm 100mm 150mm 200mm

CYCLE BYPASS



SPEED CUSHIONS

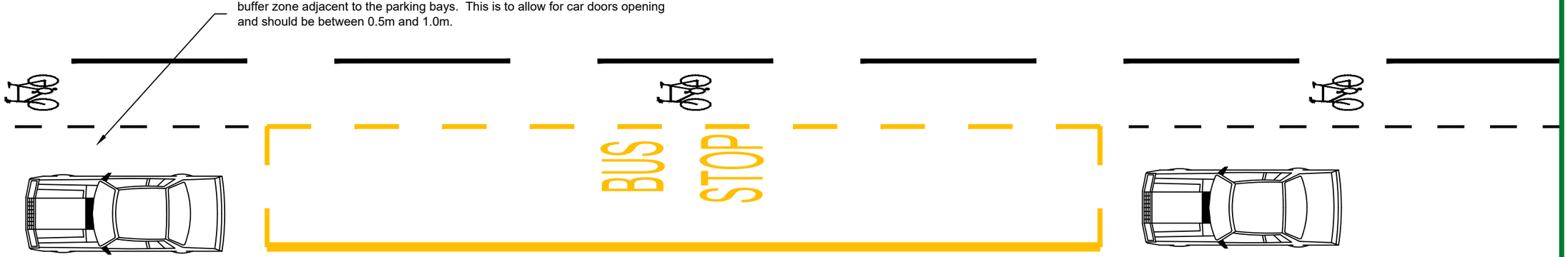


ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council	HIGHWAY CONSTRUCTION DETAILS (HCD-700)	SECTION: CYCLEWAYS	TITLE: ON-CARRIAGEWAY CYCLE LANES: SPEED REDUCTION MEASURES	DRAWN: RJP	CHECKED: LJ	APPROVED: AC	ISSUE: 2	PREVIOUS ISSUES: 1 OCT 2013
				DRAWING NUMBER: CY 701.11	SHEET SIZE: A3		ISSUE DATE: APR 2016	

0mm 50mm 100mm 150mm 200mm

footway/cycleway



footway

NOTES

1. When approaching parallel parking bays, the cycle lane should pass the bays at a 1:10 angle (similar to CY 701.6).
2. A buffer zone of between 0.5m and 1.0m should be provided. However, on a contra-flow cycle lane, the buffer zone may be omitted.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ON-CARRIAGEWAY CYCLE LANES: BUS STOPS

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 701.12	A3	APR 2016

PREVIOUS ISSUES: 1 OCT 2013

0mm 50mm 100mm 150mm 200mm

two Diag. 956 (450mm dia.)
"shared unsegregated footway
/cycleway" mounted back to back
at 2.40m minimum mounting height

signs to be provided at regular intervals and at
points where pedestrians & cyclists can join the route

repeater signs should be
300mm max.

EFT kerb

EFT kerb

where a grass verge would cause
maintenance problems, block paving to
dwg B 704.3 may be used (colour must
differ from cycleway)

*where an existing footway is being
upgraded to a shared cycleway/footway
a 0.5m buffer zone will be permitted

buffer zone (verge)
1.5m desirable (1.0m minimum*)

3.0m minimum for shared use
(lesser widths may be agreed with
the Overseeing Organisation in
certain circumstances)

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: OFF-CARRIAGEWAY CYCLE LANES: UNSEGREGATED CYCLEWAY/FOOTWAY

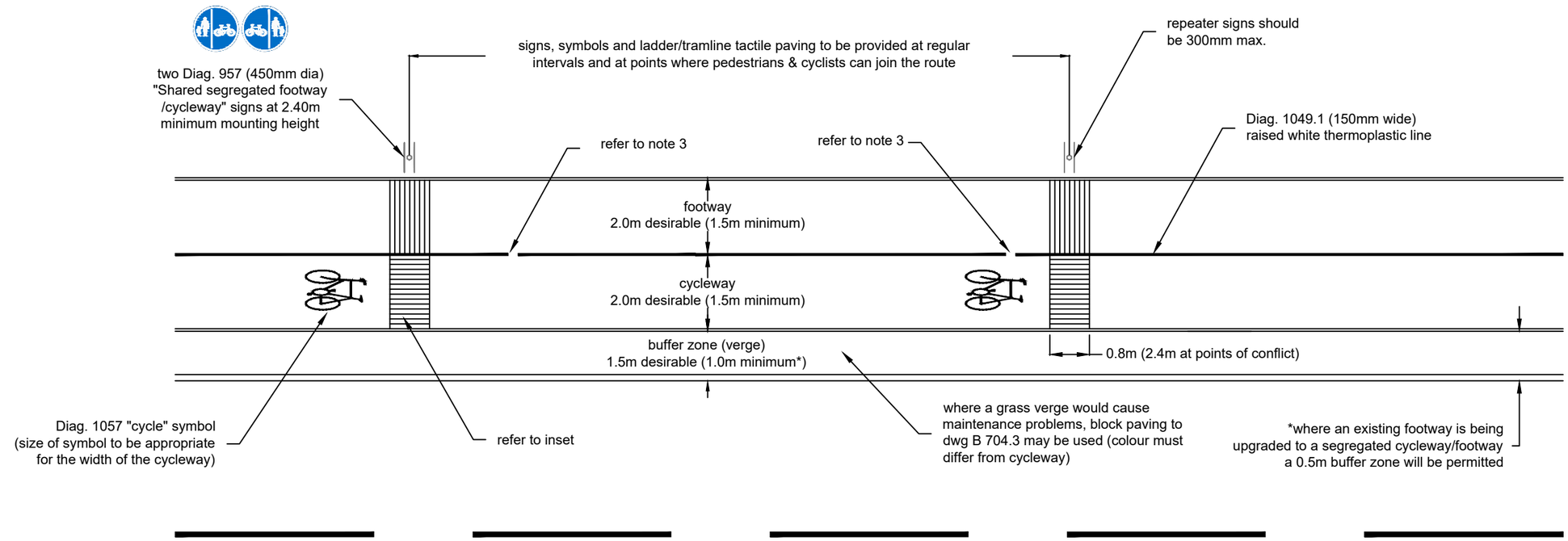
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

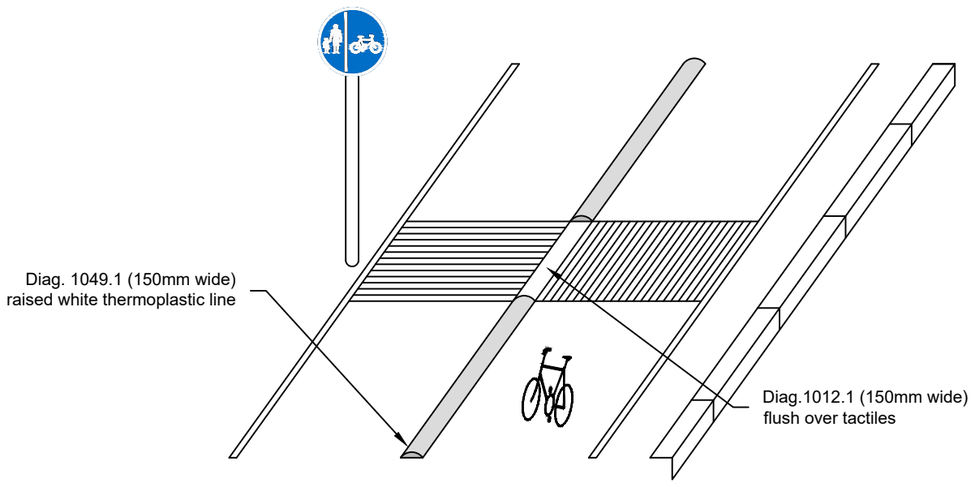
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.1	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm





ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

NOTES

1. On segregated combined cycleways and footways, the cycleway shall be adjacent to the carriageway.
2. Refer to the Traffic Signs and General Directions for details of the allowable ridge height on Diag. 1049.1 raised markings.
3. Gaps (between 100mm and 200mm in width) shall be provided along the length of Diag. 1049.1 raised markings to allow drainage of the paved footway surface. These shall be provided at low spots and other regular intervals as necessary.
4. Drawing to be read in conjunction with CY 702.5

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: OFF-CARRIAGEWAY CYCLE LANES: SEGREGATED CYCLEWAY/FOOTWAY

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

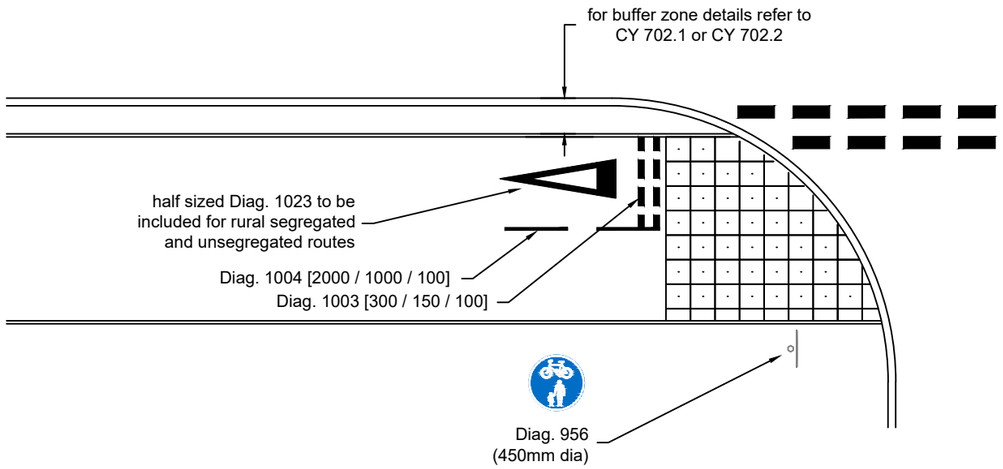
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.2	A3	APR 2016

PREVIOUS ISSUES

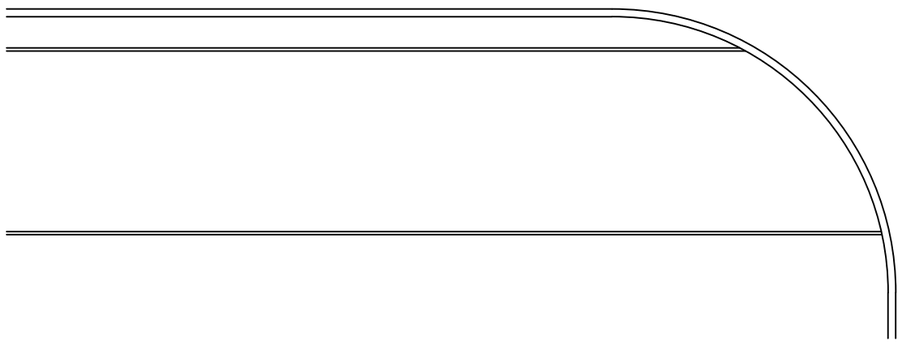
1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm

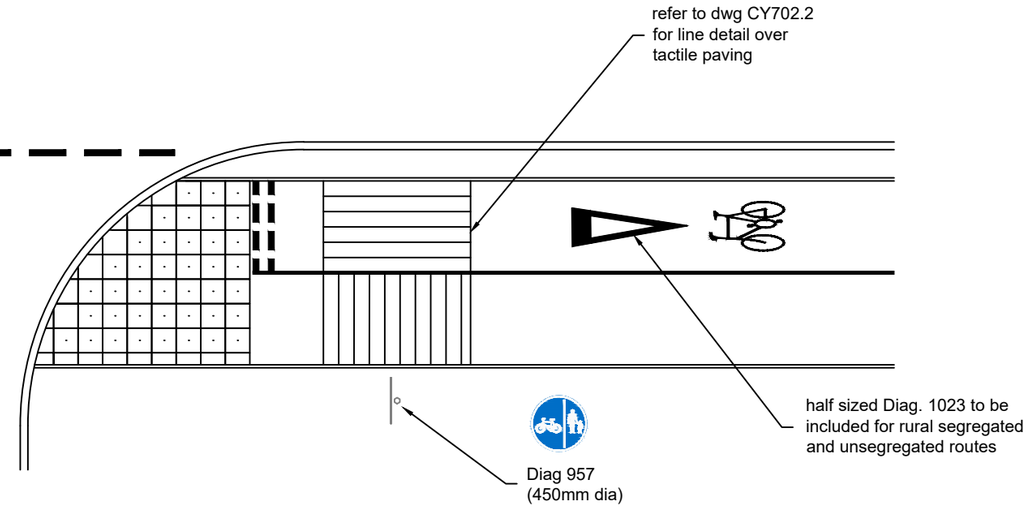
SIDE ROAD CROSSING
(FOR UNSEGREGATED FOOTWAY/CYCLEWAYS)



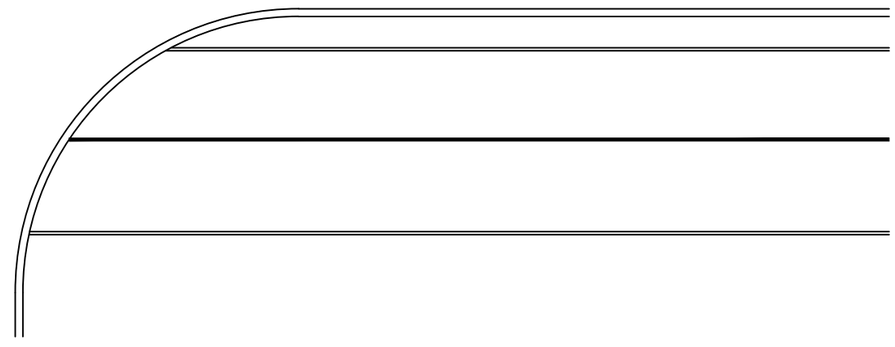
PRIVATE ACCESS CROSSING
(FOR UNSEGREGATED FOOTWAY/CYCLEWAYS)



SIDE ROAD CROSSING
(FOR SEGREGATED FOOTWAY/CYCLEWAYS)



PRIVATE ACCESS CROSSING
(FOR SEGREGATED FOOTWAY/CYCLEWAYS)



NOTES

1. Refer to CY 702.5 for kerb and tactile paving details.
2. For private accesses, no signs are required.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

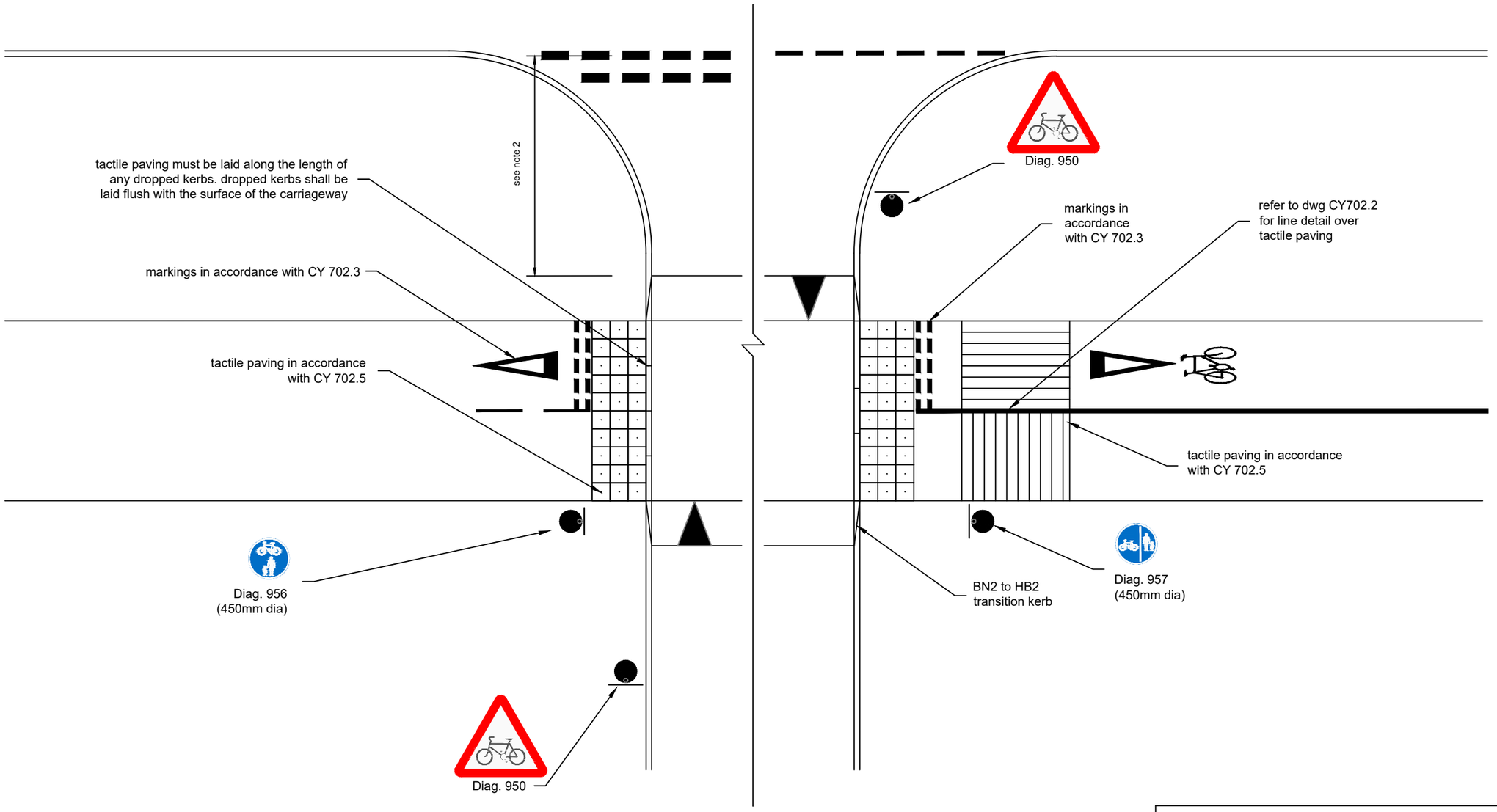
Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)	
SECTION	CYCLEWAYS
TITLE	OFF-CARRIAGEWAY CYCLE LANES: SIDE ROAD CROSSINGS GENERAL ARRANGEMENT
DRAWN	RJP
CHECKED	LJ
APPROVED	AC
ISSUE	4
DRAWING NUMBER	CY 702.3
SHEET SIZE	A3
ISSUE DATE	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm



NOTES

1. Flat-top road hump markings shall comply with Diag. 1060.
2. Recommended set back is 4m to 8m on busy side roads. A set back not required on quiet side roads.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: OFF-CARRIAGEWAY CYCLE LANES: SIDE ROAD CROSSINGS WITH A FLAT-TOP ROAD HUMP

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

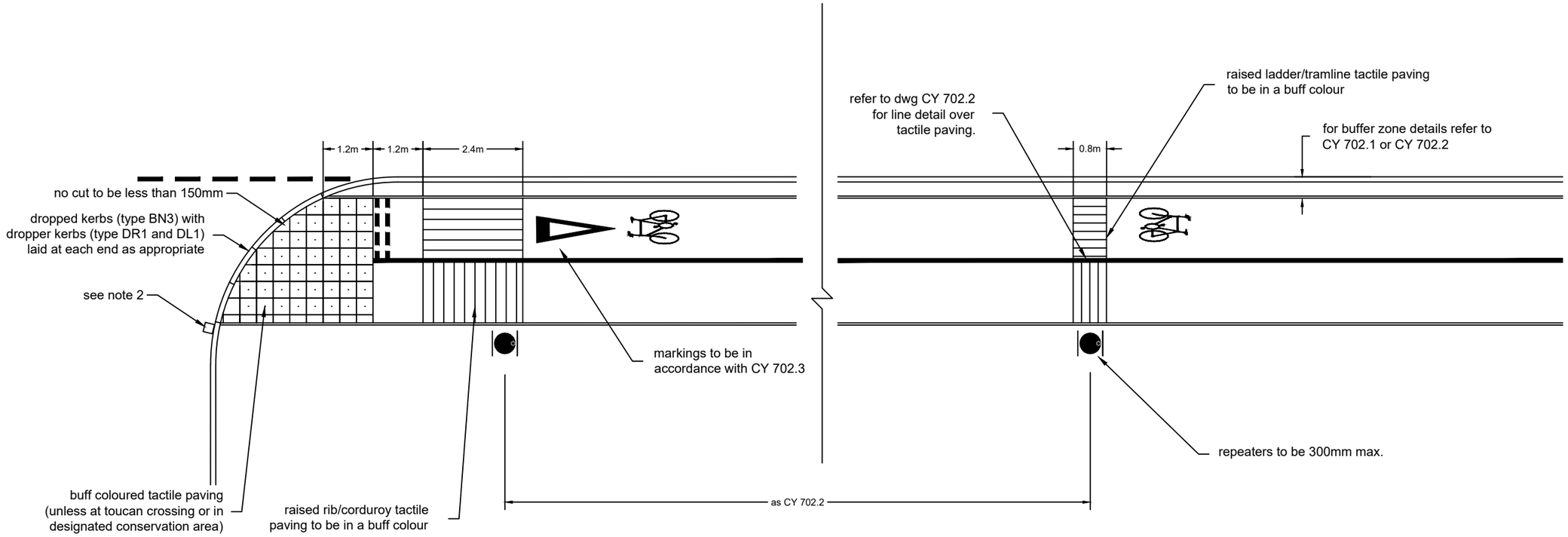
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.4	A3	APR 2016

PREVIOUS ISSUES

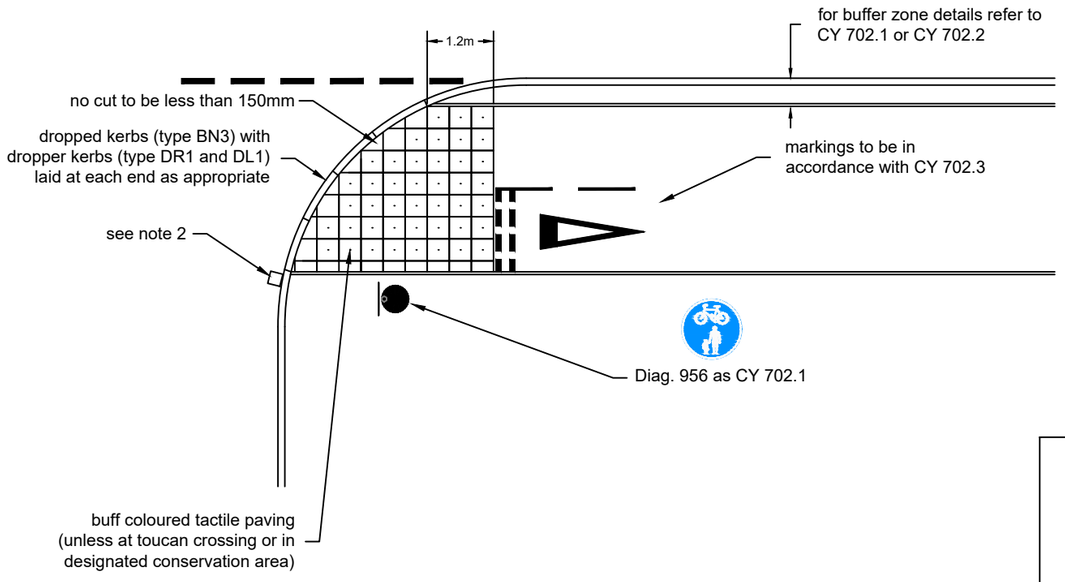
1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm

SEGREGATED FOOTWAY/CYCLEWAYS



UNSEGREGATED FOOTWAY/CYCLEWAYS



NOTES

1. For full details on the application of tactile paving, refer to Guidance on the Use of Tactile Paving Surfaces (DfT) current edition.
2. No gullies shall be installed in the dropped kerb zone. BN3 kerbs shall be laid with an upstand of 0-6mm to the carriageway surface.
3. Gullies shall be installed at the upstream end of the dropped kerb zone.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: OFF-CARRIAGEWAY CYCLE LANES: SIDE ROAD CROSSINGS KERB & TACTILE PAVING DETAILS

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

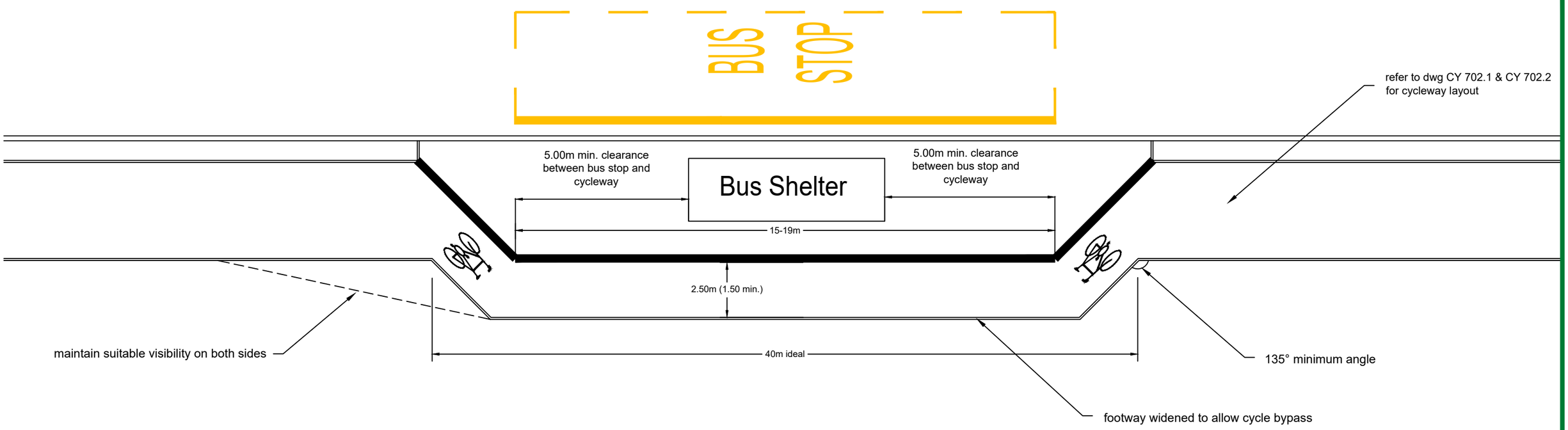
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.5	A3	APR 2016

PREVIOUS ISSUES

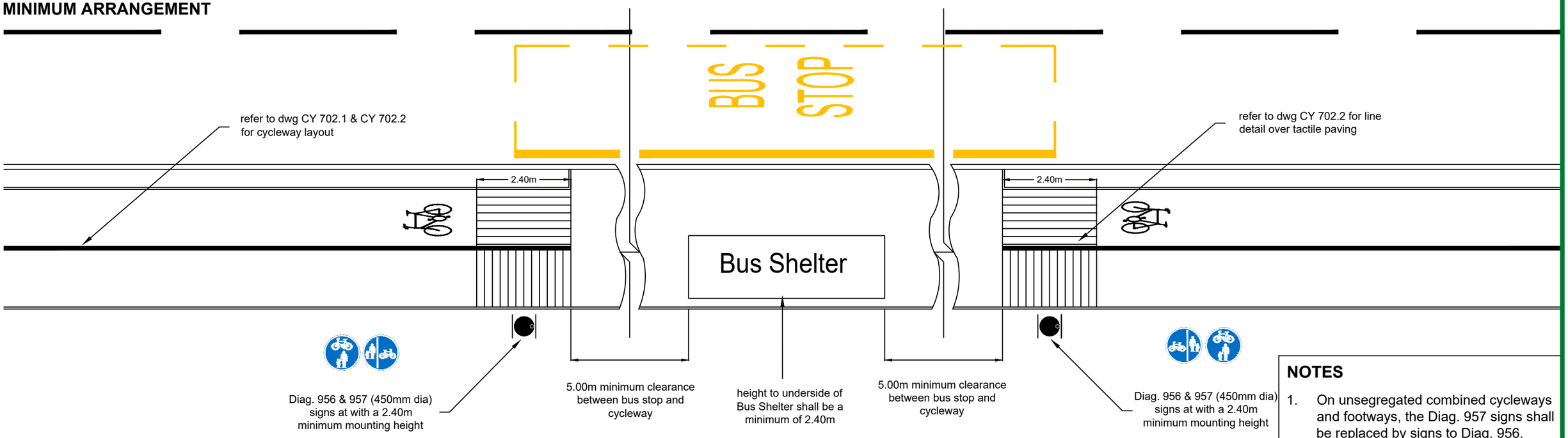
1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm

IDEAL ARRANGEMENT



MINIMUM ARRANGEMENT



NOTES

1. On unsegregated combined cycleways and footways, the Diag. 957 signs shall be replaced by signs to Diag. 956.

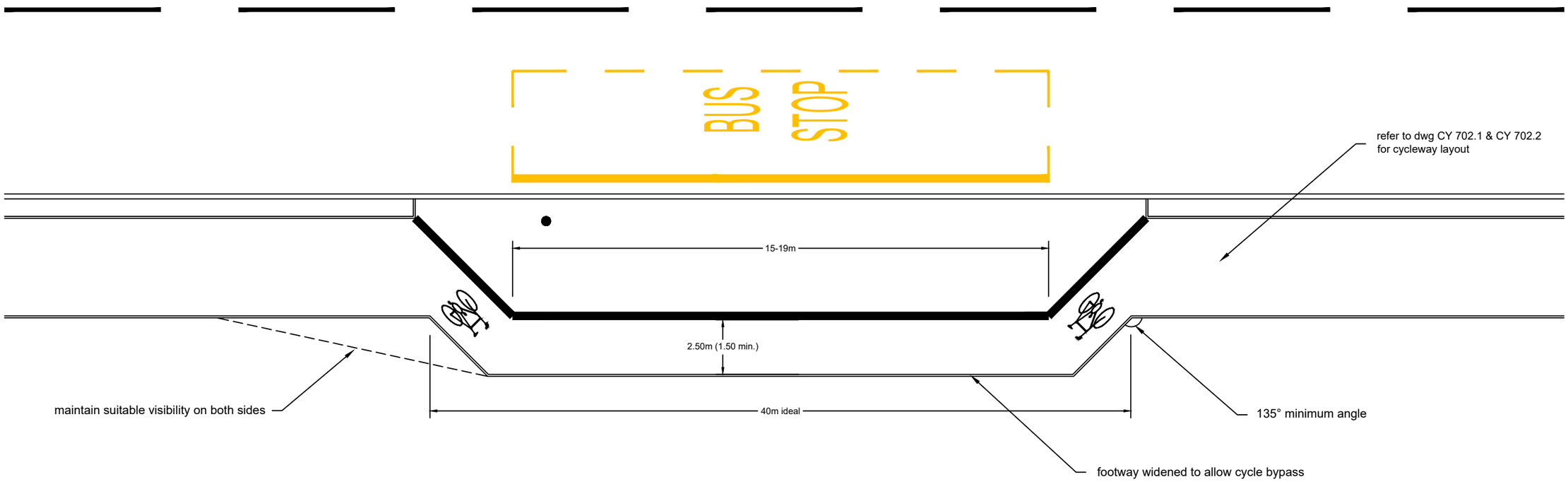
ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council	HIGHWAY CONSTRUCTION DETAILS (HCD-700)	SECTION: CYCLEWAYS	TITLE: OFF-CARRIAGEWAY CYCLE LANES: BUS STOPS WITH SHELTERS	DRAWN: RJP	CHECKED: LJ	APPROVED: AC	ISSUE: 4
				DRAWING NUMBER: CY 702.6	SHEET SIZE: A3	ISSUE DATE: APR 2016	

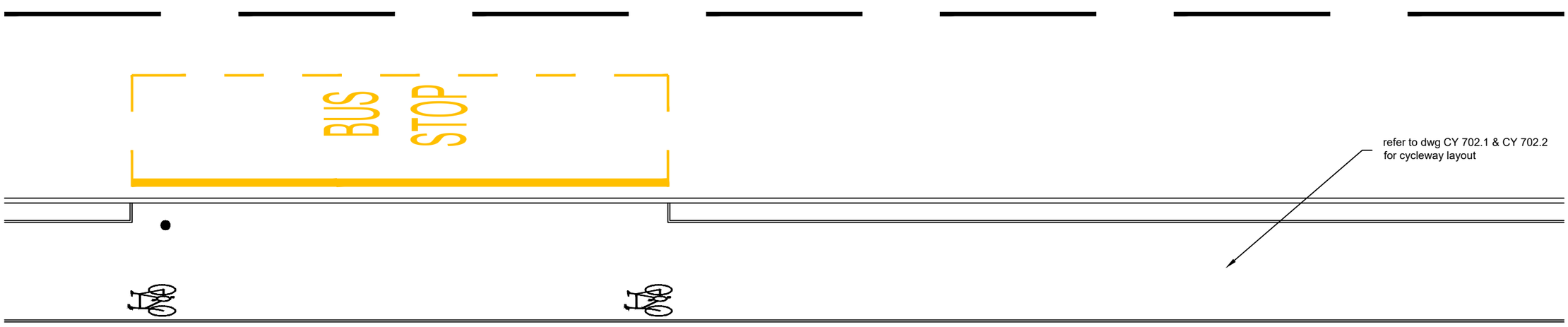
PREVIOUS ISSUES
1 APR 2004
2 JAN 2009
3 OCT 2013

0mm 50mm 100mm 150mm 200mm

IDEAL ARRANGEMENT



MINIMUM ARRANGEMENT



ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

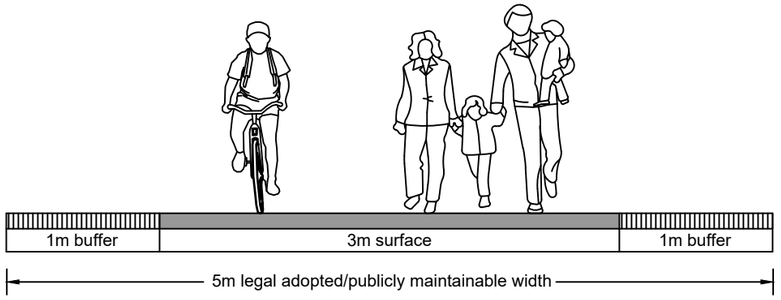
TITLE: OFF-CARRIAGEWAY CYCLE LANES: BUS STOPS WITHOUT SHELTERS

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

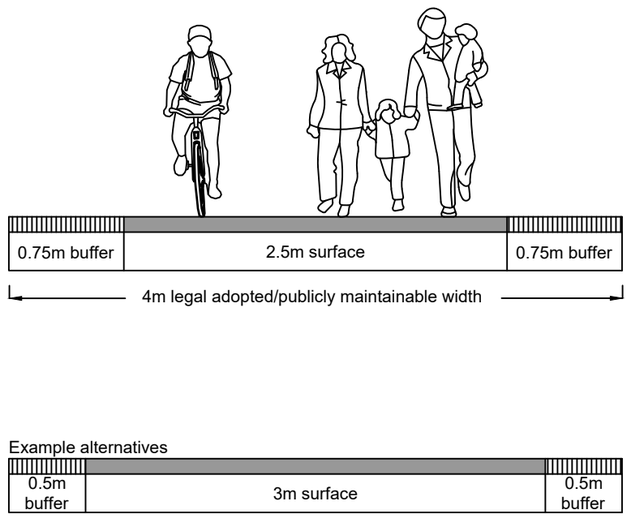
DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.7	A3	APR 2016

PREVIOUS ISSUES: 1 OCT 2013

0mm 50mm 100mm 150mm 200mm



DESIRABLE WIDTH



MINIMUM WIDTH

NOTES

1. This guidance is provided for routes which are seperate from the main carriageway, and where the route will be a publicly maintainable highway and is to be;
   a. converted from an existing pedestrian route by a Cycle Track Order or
   b. converted from an existing pedestrian route, and adopted
   c. constructed, and adopted by WCC or
   d. constructed by WCC, over land owned by WCC.
2. The guidance may be applied to routes which are to be constructed and maintained by a third party, where this is appropriate.
3. This guidance does NOT necessarily apply to on-carriageway cycle routes, nor to shared cycleways/footways immediately beside the carriageway or within the extent of a vehicular highway.
4. On segregated cycle tracks, the raised line should have gaps in it to allow surface water to drain away.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

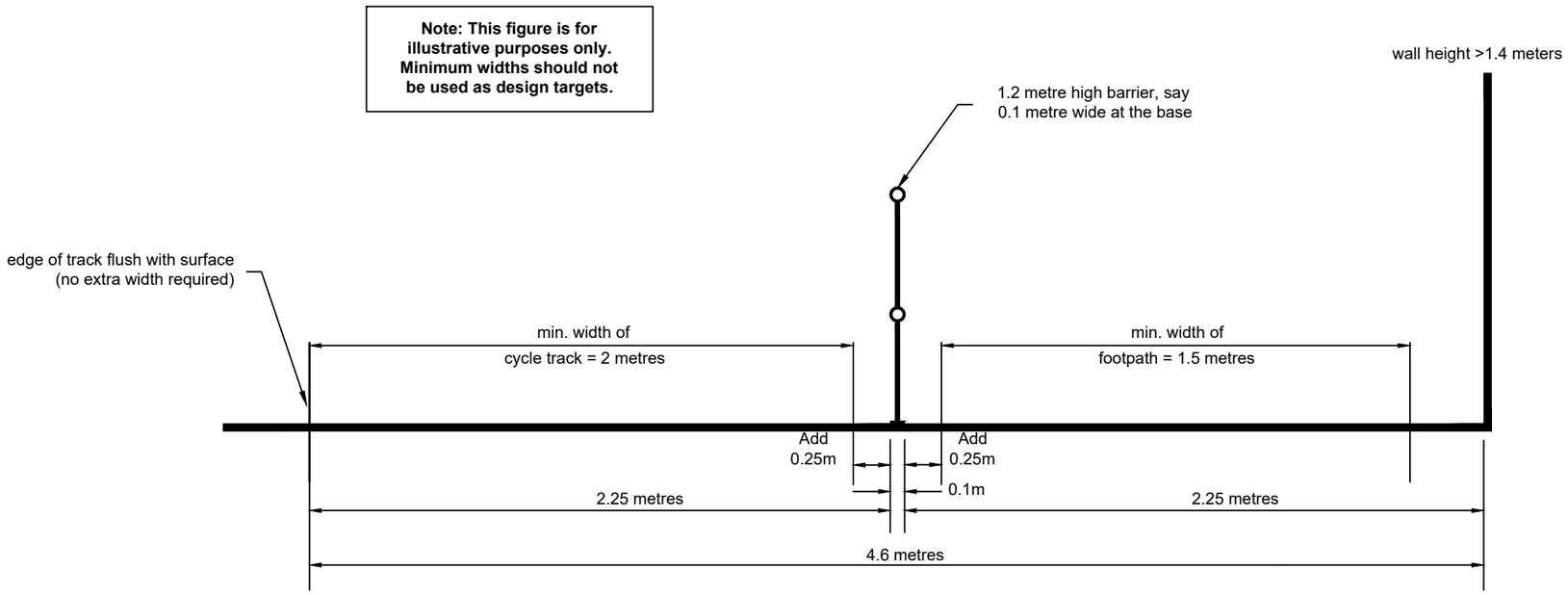
TITLE: CYCLE TRACKS (SHARED): WIDTHS

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.8	A3	APR 2016

PREVIOUS ISSUES	
1	OCT 2013

0mm 50mm 100mm 150mm 200mm



Type of edge constraint	Additional width required
Flush or near flush surface	Nil
Low upstand up to 150mm	Add 200mm
Vertical features from 150mm to 1.39m	Add 250mm
Vertical feature above 1.4m (eg. parapet)	Add 500mm

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

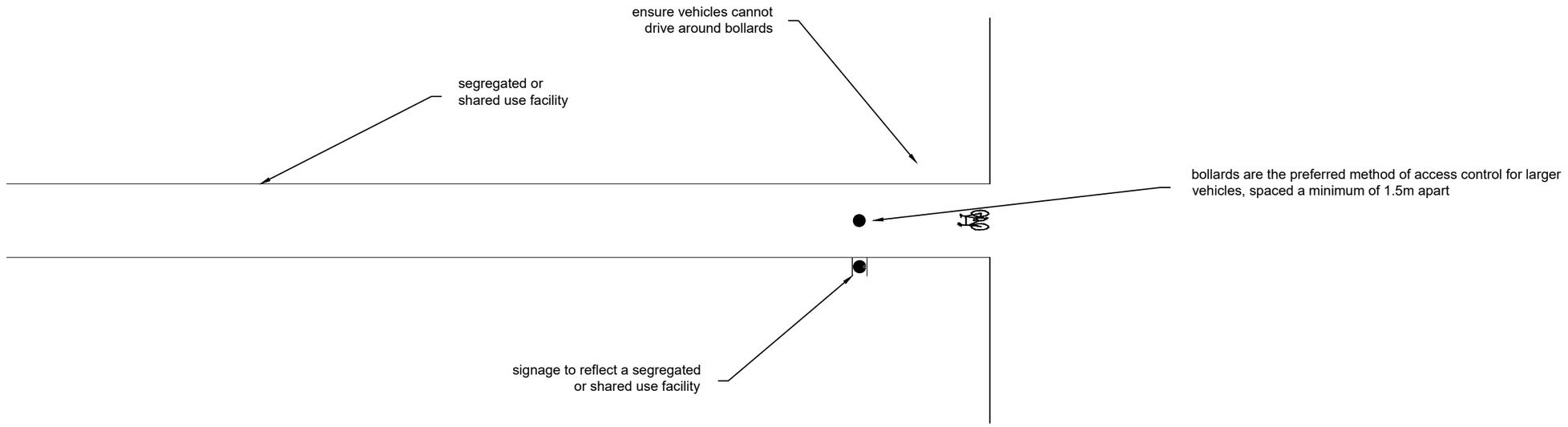
TITLE: CYCLE TRACKS (SEGREGATED): WIDTHS

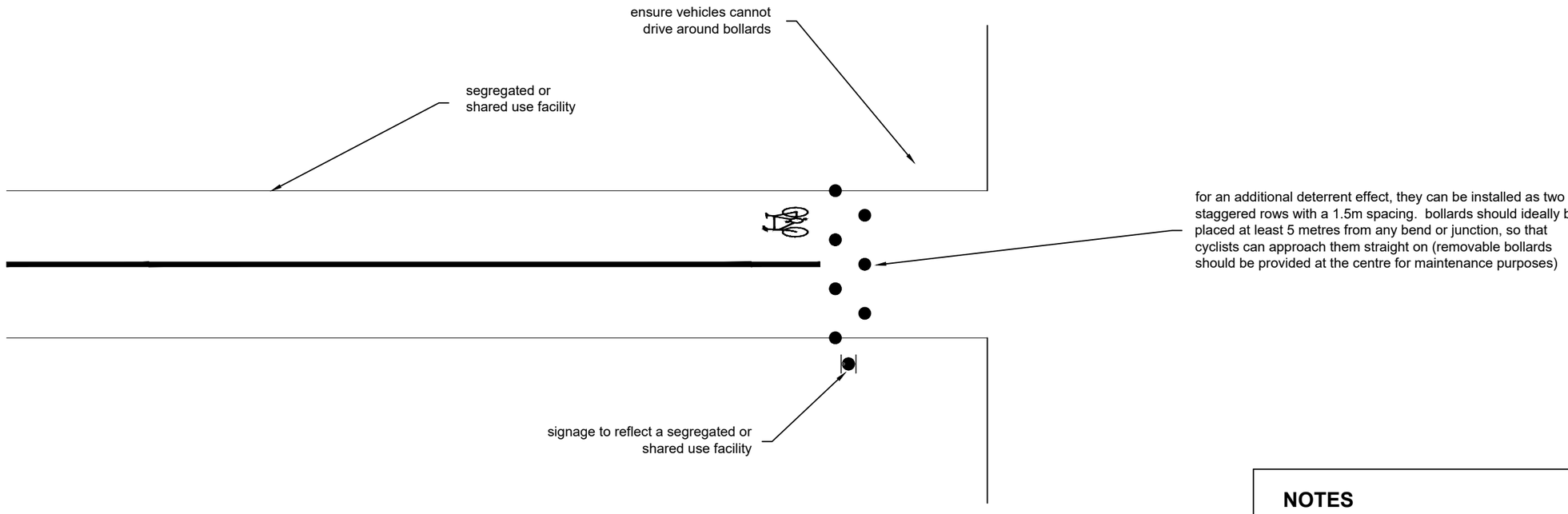
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.9	A3	APR 2016

PREVIOUS ISSUES: 1 OCT 2013

0mm 50mm 100mm 150mm 200mm





NOTES

1. Where bollards are not required to prevent vehicle access, use of the 'SLOW' marking should be considered.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: CYCLE TRACKS: ACCESS CONTROL

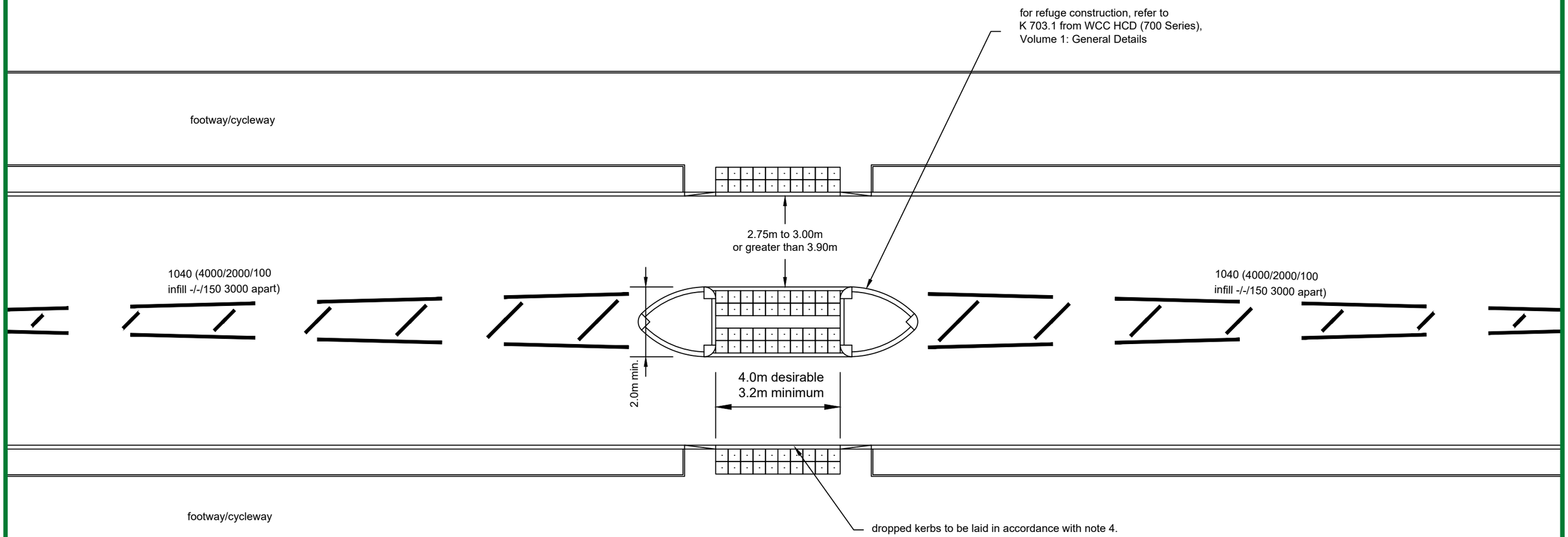
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 702.10	A3	APR 2016

PREVIOUS ISSUES

1	OCT 2013		

0mm 50mm 100mm 150mm 200mm



NOTES

1. Tactile paving shall comply with Guidance on the Use of Tactile Paving Surfaces (DfT) current edition.
2. Consideration should be given to the provision of Diag. 950 "Cycle" warning signs.
3. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone.
4. Dropped kerbs shall be laid with an upstand of 0-6mm to the carriageway surface.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ROAD CROSSING POINTS: PEDESTRIAN REFUGE

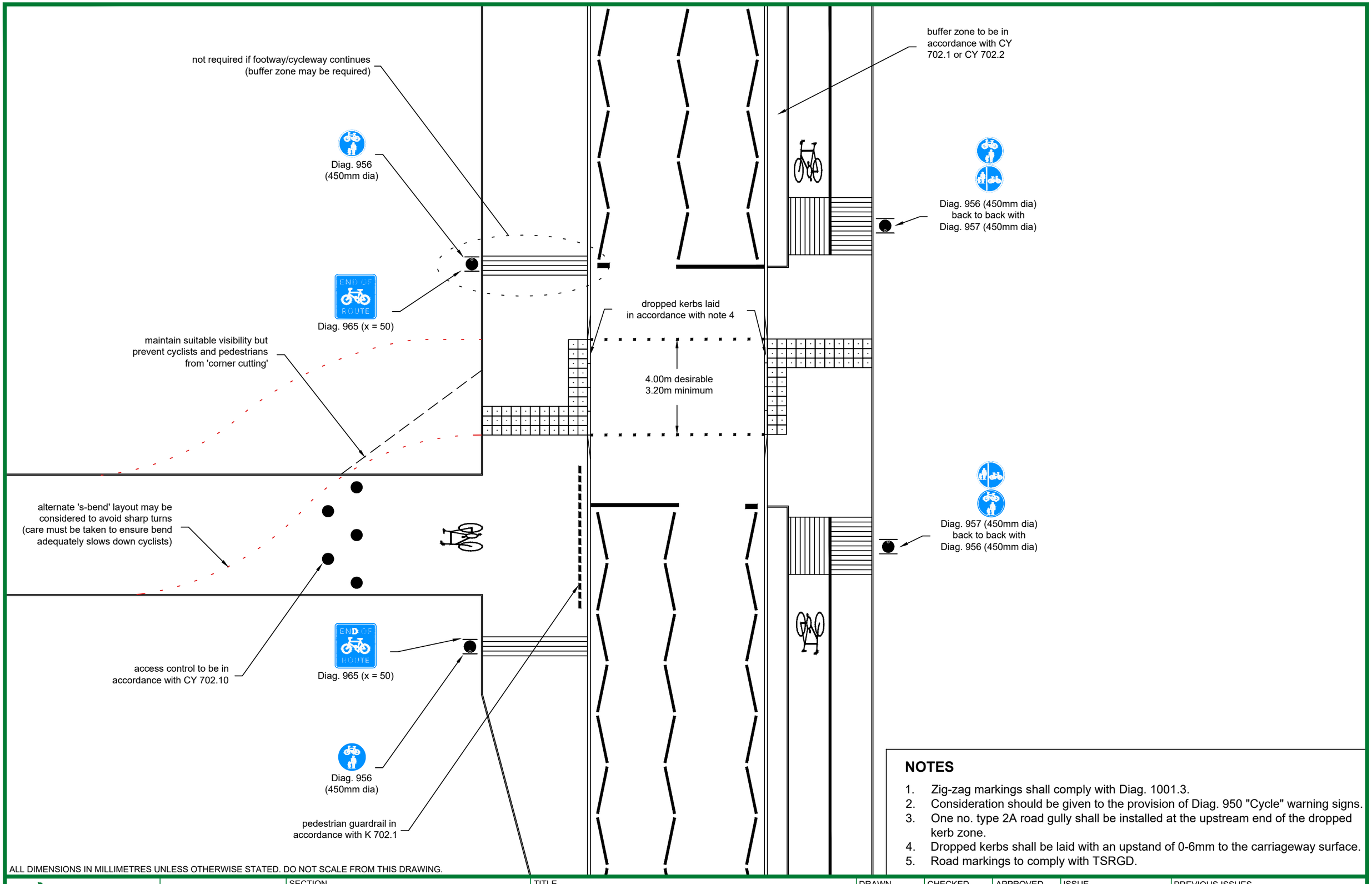
DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 703.1	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2010

0mm 50mm 100mm 150mm 200mm



NOTES

1. Zig-zag markings shall comply with Diag. 1001.3.
2. Consideration should be given to the provision of Diag. 950 "Cycle" warning signs.
3. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone.
4. Dropped kerbs shall be laid with an upstand of 0-6mm to the carriageway surface.
5. Road markings to comply with TSRGD.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ROAD CROSSING POINTS: TOUCAN CROSSINGS

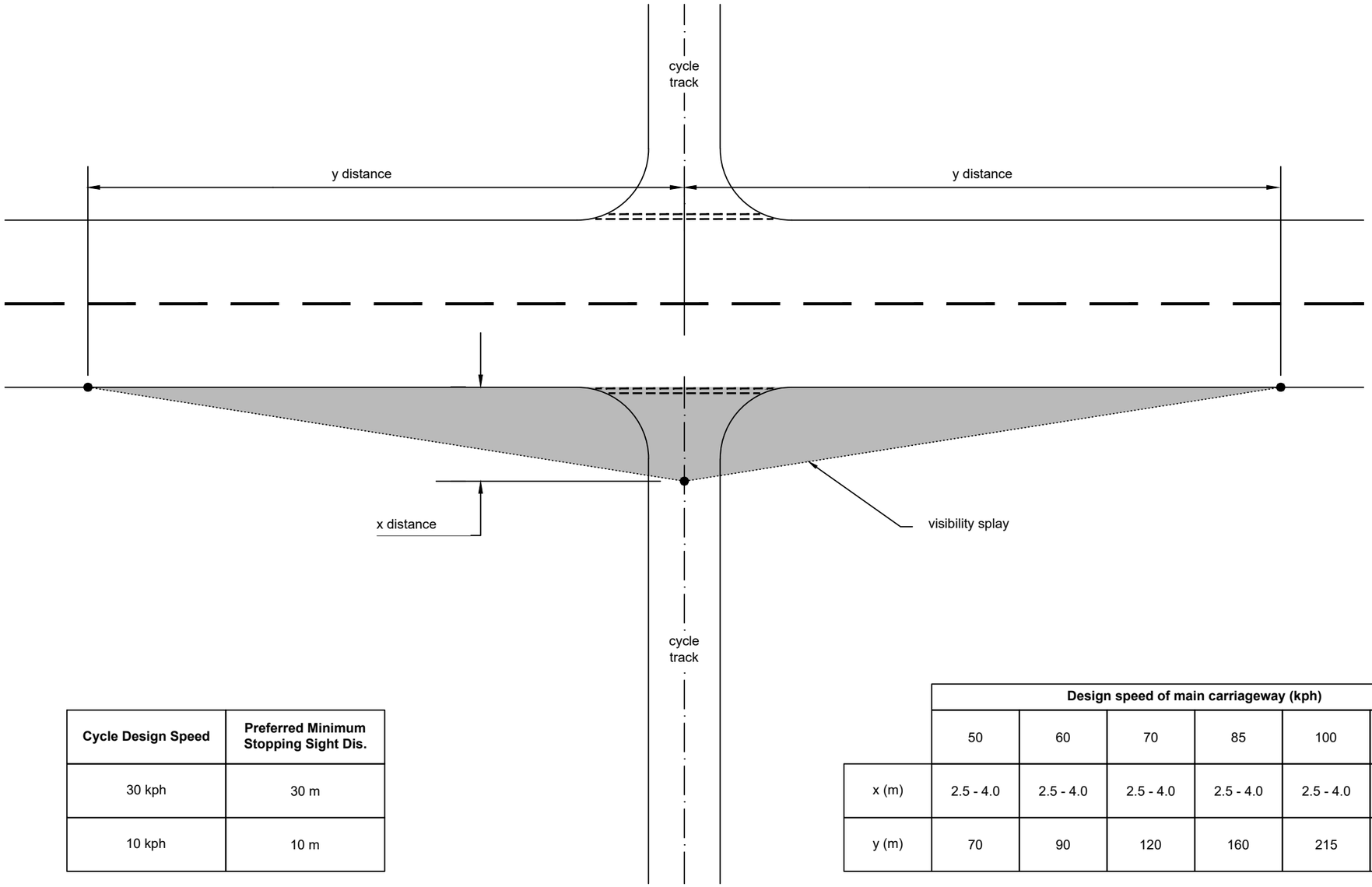
DRAWN	CHECKED	APPROVED	ISSUE
RJP	SL	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 703.2	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm



Cycle Design Speed	Preferred Minimum Stopping Sight Dis.
30 kph	30 m
10 kph	10 m

	Design speed of main carriageway (kph)					
	50	60	70	85	100	120
x (m)	2.5 - 4.0	2.5 - 4.0	2.5 - 4.0	2.5 - 4.0	2.5 - 4.0	2.5 - 4.0
y (m)	70	90	120	160	215	295

SSD FOR OFF-CARRIAGEWAY CYCLE ROUTES

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

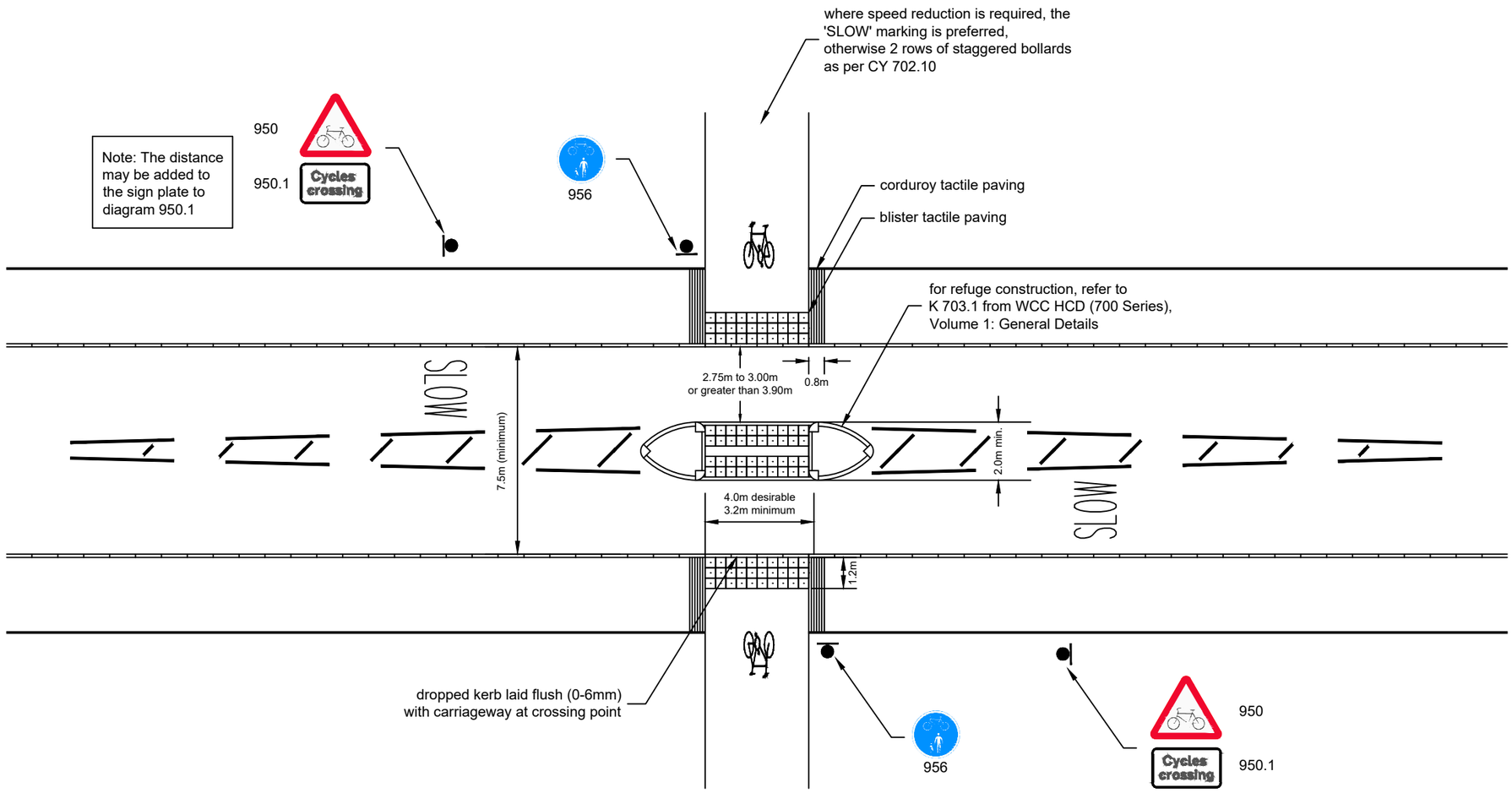
TITLE: CYCLE TRACKS: VISIBILITY & STOPPING SIGHT DISTANCES AT JUNCTIONS

DRAWN	CHECKED	APPROVED	ISSUE
RJP	LJ	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 703.3	A3	APR 2016

PREVIOUS ISSUES: 1 OCT 2013

0mm 50mm 100mm 150mm 200mm



CROSSING TYPES

85th percentile speed	Traffic flow (two-way daily)	Type of crossing
< 50 mph	< 6,000	Cyclists give way to road traffic
< 50 mph	< 50 mph	Cyclists give way to road traffic plus central refuge - urban
< 60 mph	< 10,000	Cyclists give way to road traffic plus central refuge - rural
< 50 mph	> 8,000	Signal controlled, including Toucans
< 50 mph	> 8,000	Grade separated crossing - urban
< 60 mph	> 10,000	Grade separated crossing - rural

Note: this table is for guidance only - individually locations should be assessed on a case by case basis.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

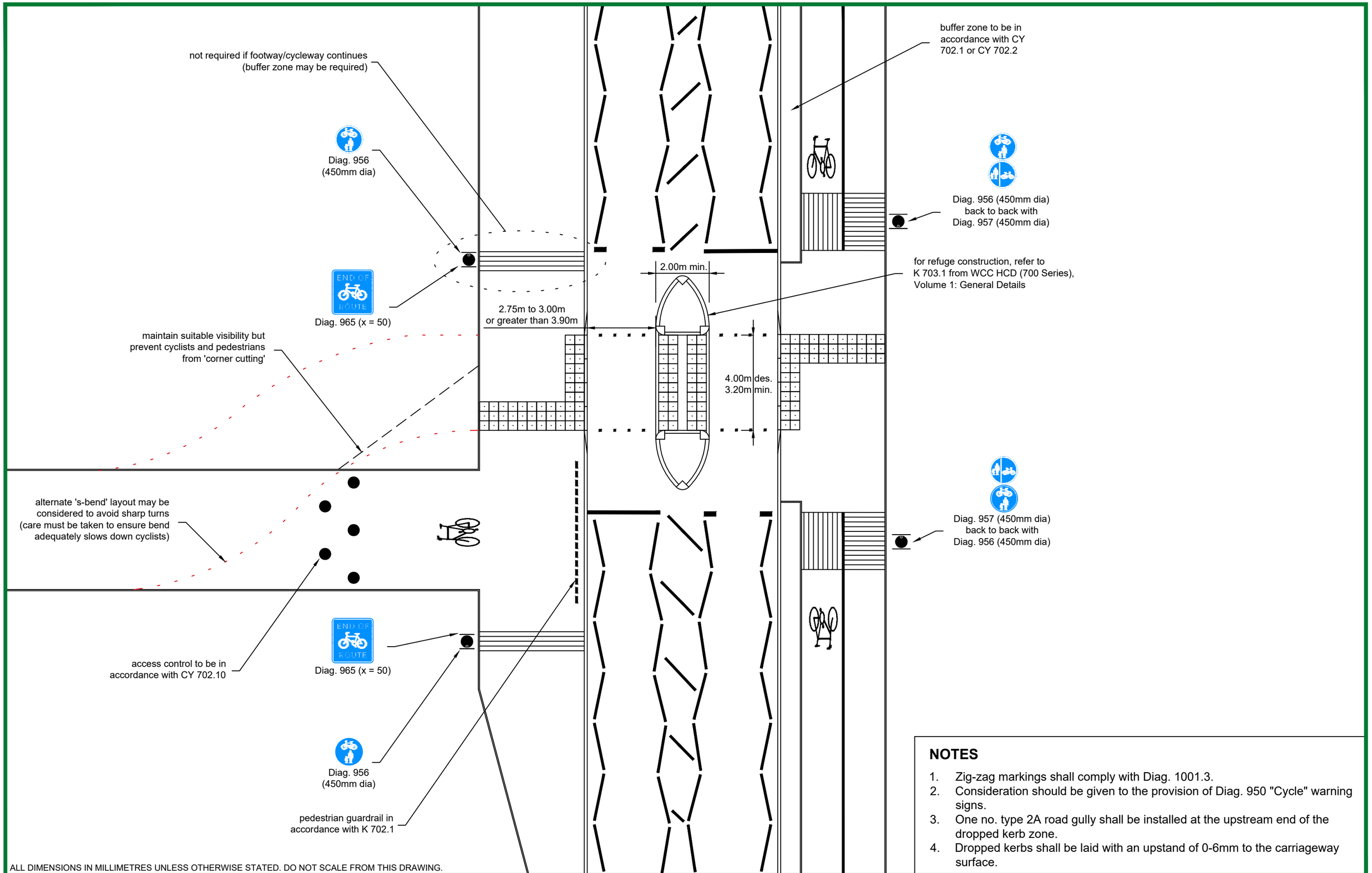
SECTION: CYCLEWAYS

TITLE: ROAD CROSSING POINTS: CYCLE TRACK/CARRIAGEWAY CROSSING

DRAWN	CHECKED	APPROVED	ISSUE	PREVIOUS ISSUES
RJP	LJ	AC	2	1 OCT 2013

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 703.4	A3	APR 2016

0mm 50mm 100mm 150mm 200mm



NOTES

1. Zig-zag markings shall comply with Diag. 1001.3.
2. Consideration should be given to the provision of Diag. 950 "Cycle" warning signs.
3. One no. type 2A road gully shall be installed at the upstream end of the dropped kerb zone.
4. Dropped kerbs shall be laid with an upstand of 0-6mm to the carriageway surface.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: ROAD CROSSING POINTS: TOUCAN CROSSINGS WITH A CENTRAL REFUGE

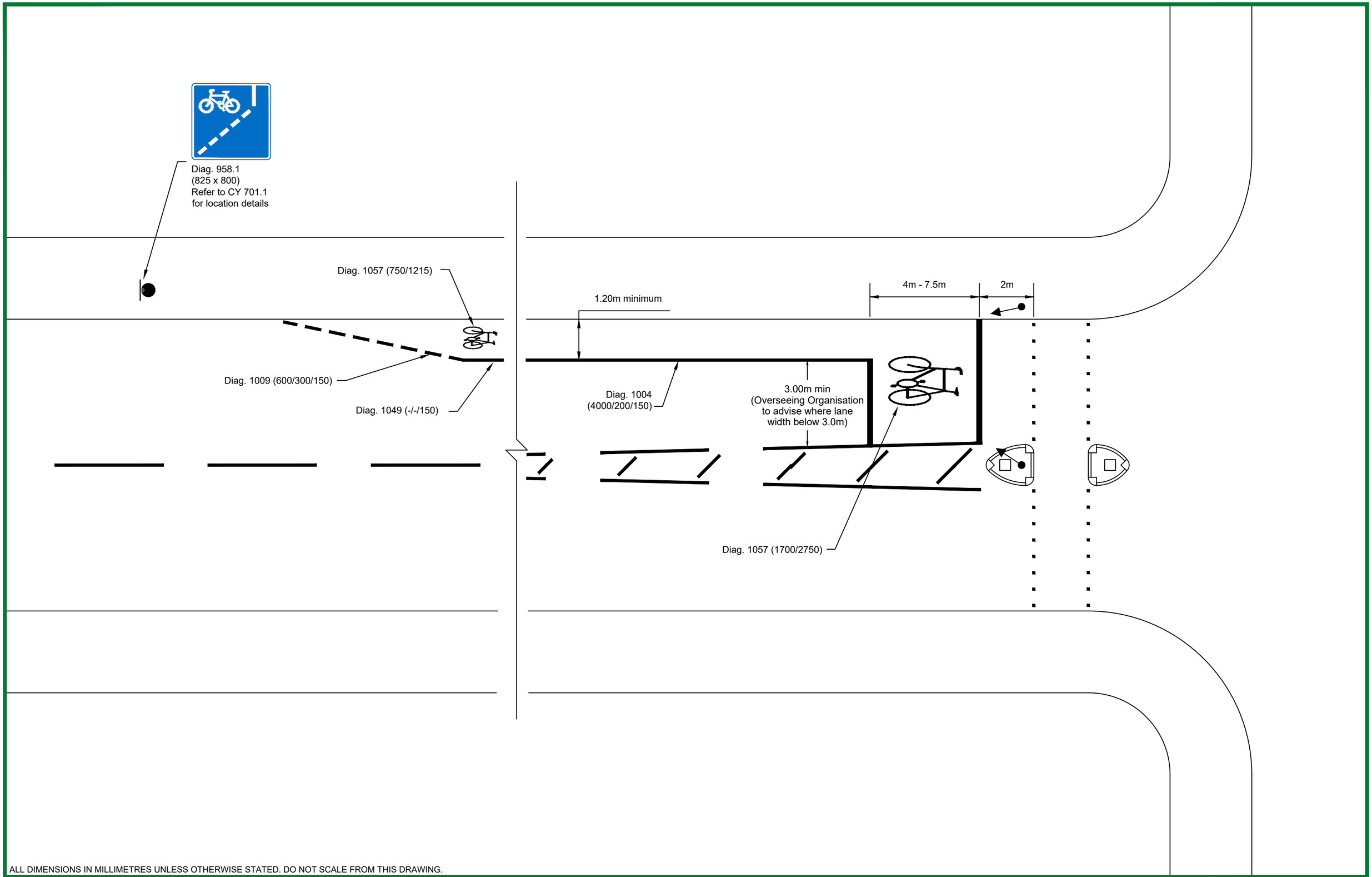
DRAWN	CHECKED	APPROVED	ISSUE
RJP	SL	AC	4

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 703.5	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009
3	OCT 2013

0mm 50mm 100mm 150mm 200mm



ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: TRAFFIC SIGNALS: ADVANCED STOP LINES FOR MANDATORY CYCLE LANES

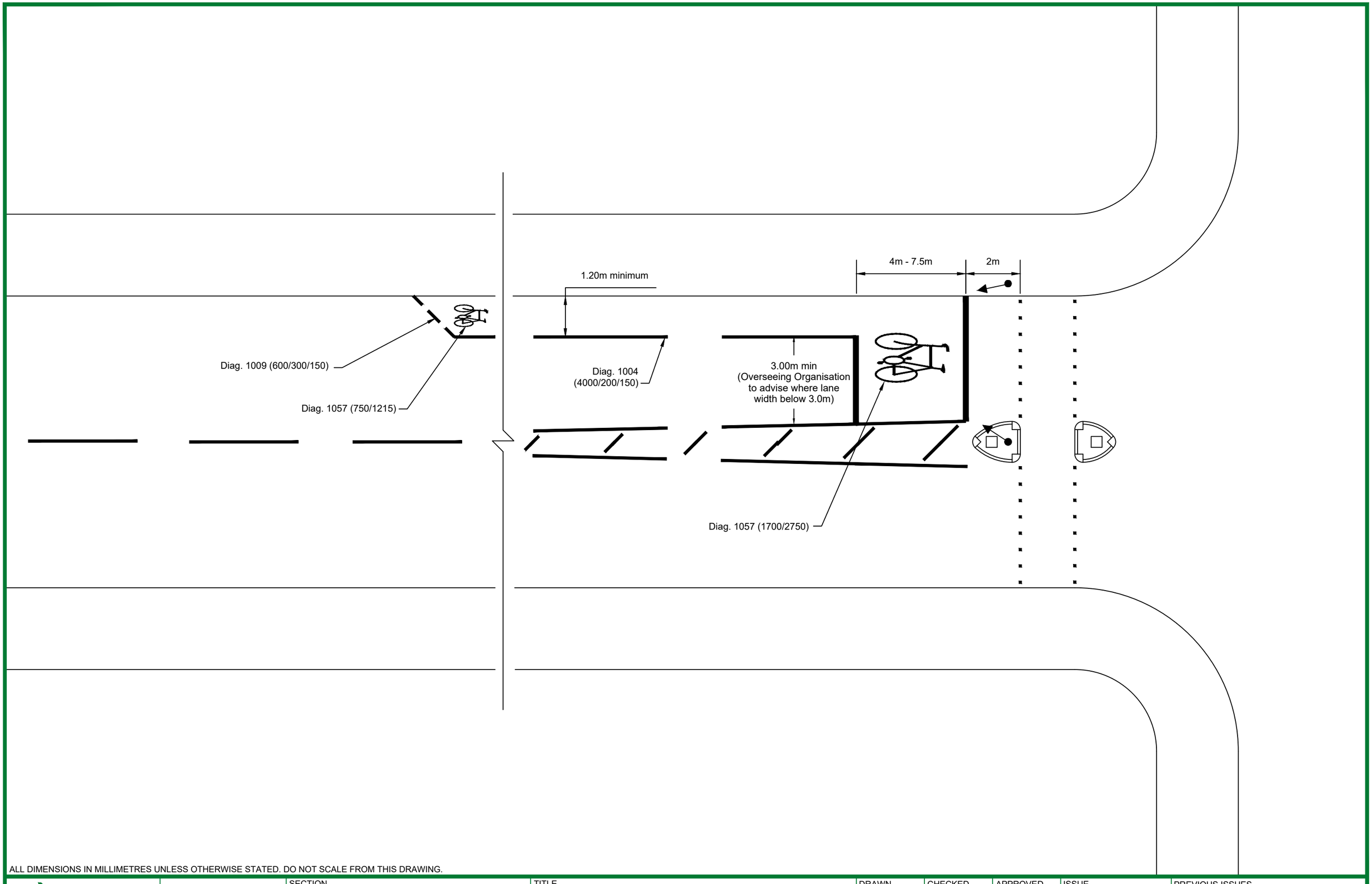
DRAWN	CHECKED	APPROVED	ISSUE
RJP	SL	AC	3

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 704.1	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009

0mm 50mm 100mm 150mm 200mm



ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: TRAFFIC SIGNALS: ADVANCED STOP LINES FOR ADVISORY CYCLE LANES

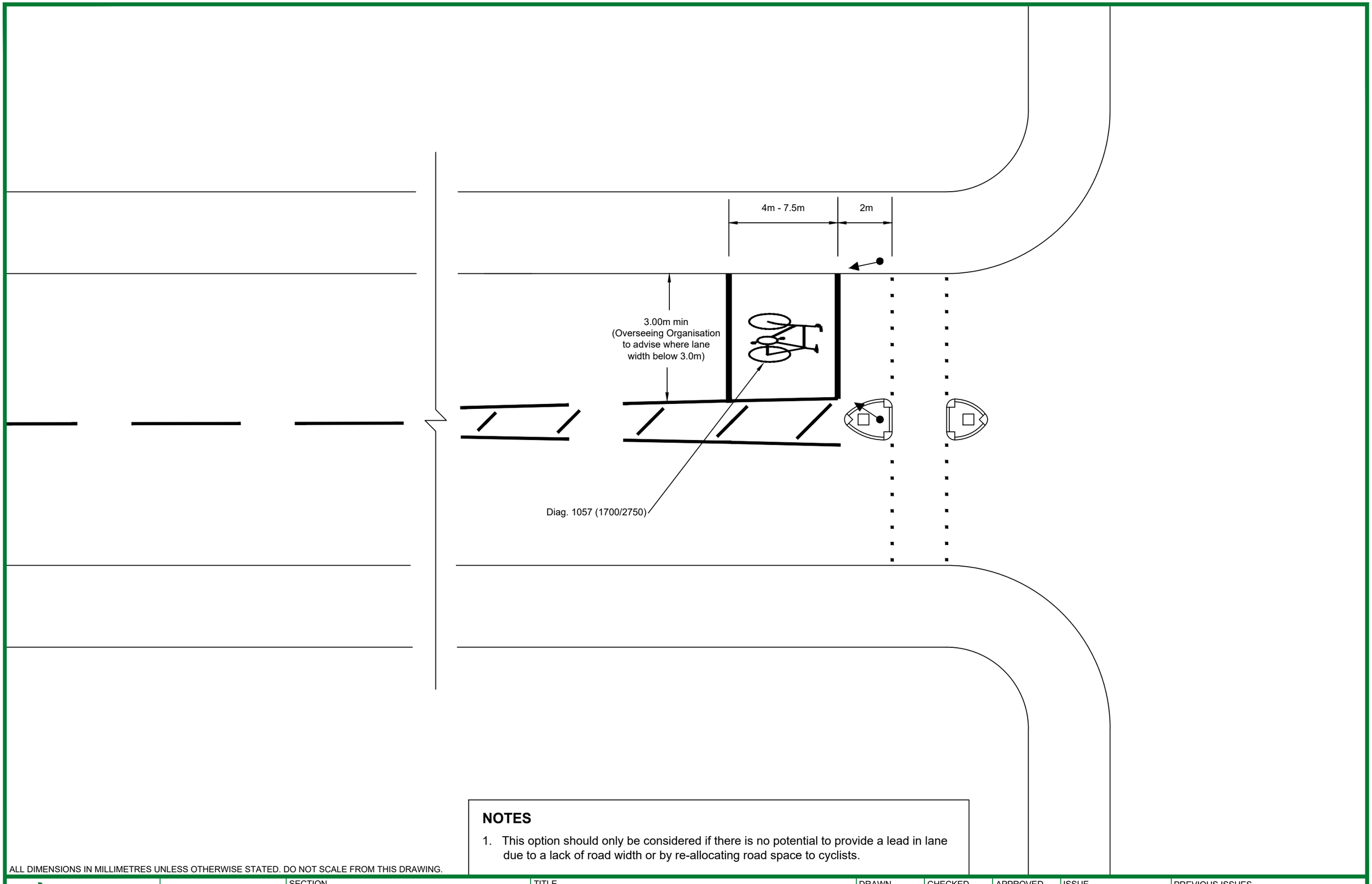
DRAWN	CHECKED	APPROVED	ISSUE
RJP	SL	AC	3

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 704.4	A3	APR 2016

PREVIOUS ISSUES

1	APR 2004
2	JAN 2009

0mm 50mm 100mm 150mm 200mm



NOTES

1. This option should only be considered if there is no potential to provide a lead in lane due to a lack of road width or by re-allocating road space to cyclists.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.

Warwickshire County Council

HIGHWAY CONSTRUCTION DETAILS (HCD-700)

SECTION: CYCLEWAYS

TITLE: TRAFFIC SIGNALS: ADVANCED STOP LINES WHEN CARRIAGEWAY WIDTH IS LIMITED

DRAWN	CHECKED	APPROVED	ISSUE
RJP	SL	AC	2

DRAWING NUMBER	SHEET SIZE	ISSUE DATE
CY 704.7	A3	APR 2016

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0mm 50mm 100mm 150mm 200mm