

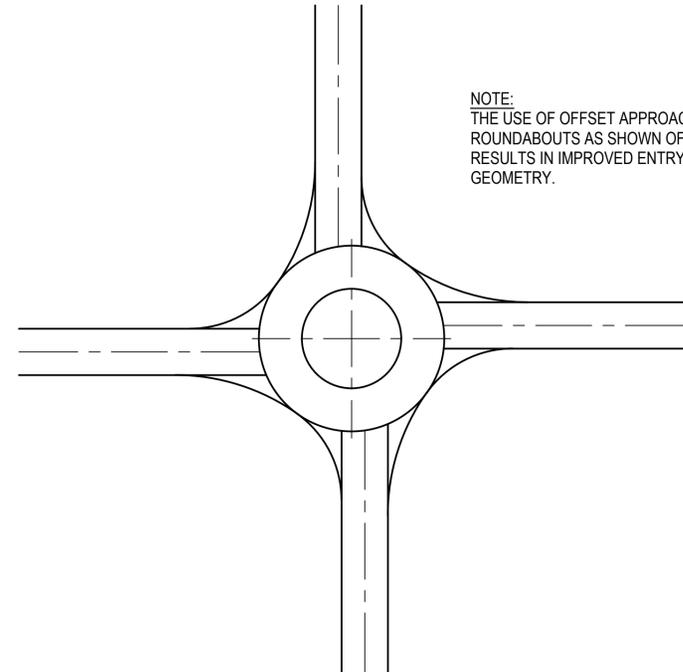
AMENDMENTS

No.	DESCRIPTION	APPROVED & DATE
1	CENTRAL ISLAND RADIUS NOTE CHANGED.	T.F. 16/3/07
2	DEFLECTION REMOVED, NOTES AMENDED/ADDED.	T. FREEMAN
3	TABLE, NOTES & OFFSET APPROACH DIAGRAM ADDED.	C.M. 8/6/12
4	NOTE 5 AMENDED.	C.M. 7/6/17
5	MIN CENTRAL ISLAND RADIUS TABLE AMENDED. NOTE ADDED.	D. NICHOLLS 17/4/18
6	TITLE BLOCK AND REFERENCES UPDATED.	C.M. 5/7/23
7	FONT STYLE CHANGED TO ARIAL NARROW.	C.M. 28/11/2023

NOTES

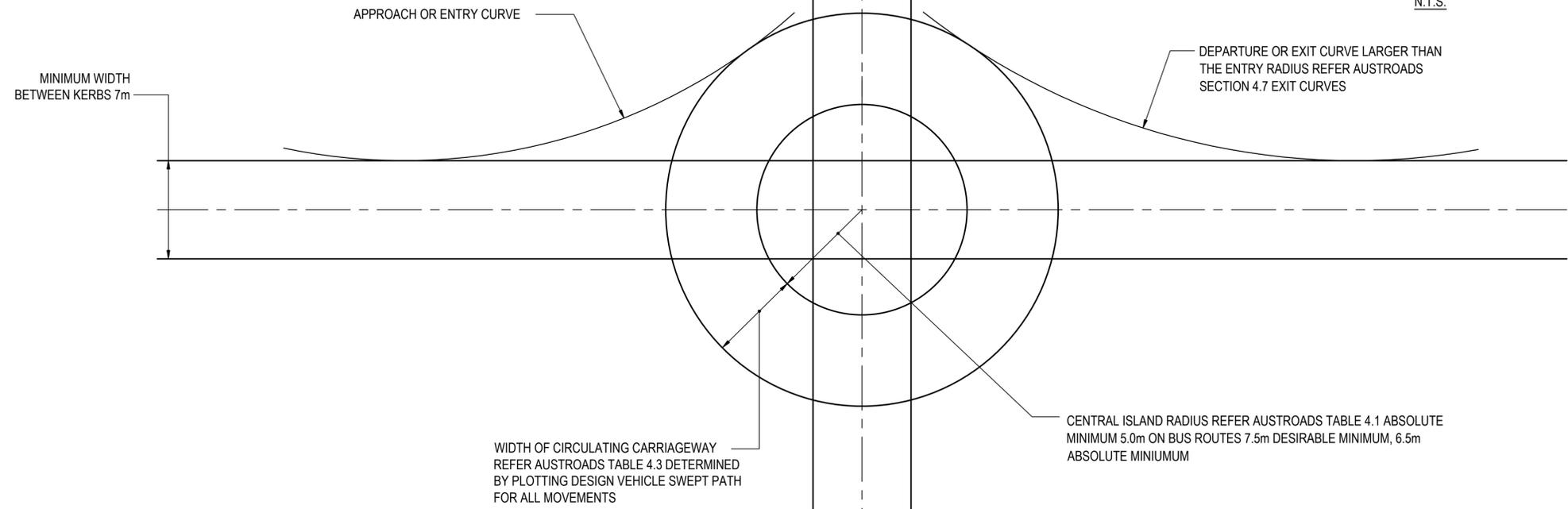
1. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH MAIN ROADS SUPPLEMENT TO AUSTRROADS GUIDE AND THE AUSTRROADS GUIDE TO ROAD DESIGN PART 4B: ROUNDABOUTS.

NOTE:
THE USE OF OFFSET APPROACHES TO ROUNDABOUTS AS SHOWN OFTEN RESULTS IN IMPROVED ENTRY AND EXIT GEOMETRY.



OFFSET APPROACH DIAGRAM
N.T.S.

NOTE:
FOR ROUNDABOUTS WHERE THE DESIGN VEHICLE IS A SEMI TRAILER OR LARGER, BI-ARC OR TRI-ARC ENTRY AND EXIT CURVES MAY BE REQUIRED TO SUIT THE VEHICLE SWEEP PATH.



RECOMMENDED MINIMUM CENTRAL ISLAND RADIUS FOR MULTIPLE COMBINATION VEHICLES

DESIGN VEHICLE	CENTRAL ISLAND RADIUS
SEMI TRAILER	14m
DOUBLE ROAD TRAIN	20m
TRIPLE ROAD TRAIN	26m

NOTE:
RECOMMENDED MINIMUM CENTRAL ISLAND RADIUS IS BASED ON ACCEPTABLE GEOMETRY AND CIRCULATING CARRIAGEWAY WIDTH. AT CONSTRAINED SITES OR WHERE DESIGN VEHICLE THROUGH MOVEMENTS ONLY ARE REQUIRED IT MAY BE POSSIBLE TO REDUCE THE SIZE OF THE CENTRAL ISLAND.

DESIGN PROCESS - STEP 1

1. DEFINE THE THROUGH ALIGNMENT OF EACH ROAD THIS MAY INCLUDE A SEALED SHOULDER OR CYCLE LANE.
2. LOCATE THE INNER AND OUTER ROUNDABOUT CIRCLES. THE CENTRE POINT IS NORMALLY CENTRALLY LOCATED WITHIN THE TWO ROADS. THIS MAY VARY DEPENDING ON LAND CONSTRAINTS, SERVICES ISSUES, ROAD WIDTH OR APPROACH ANGLES.
3. DEFINE THE APPROACH AND DEPARTURE CURVES AS SHOWN. THE DEPARTURE CURVE RADIUS SHOULD BE MORE GENEROUS THAN THE APPROACH RADIUS.
4. REPEAT FOR ALL LEGS.
5. WHERE APPROACH SPEEDS EXCEED 70 km/h, REFER TO MAIN ROADS SUPPLEMENT TO AUSTRROADS GRD PART 4B SECTION 4.5.2 APPROACH AND ENTRY TREATMENTS - APPROACH TREATMENTS FOR HIGH-SPEED AREAS.



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DESIGNED	D. NICHOLLS
VERIFIED	B. SNOOK 15/8/05
APPROVED	R. GROVE 15/8/05
FILE NO.	13/4331

GUIDELINE DRAWING
DESIGN GUIDELINES
SINGLE LANE ROUNDABOUTS
STEP 1 OF 4

MRWA DRAWING NUMBER
200331-0194-7

