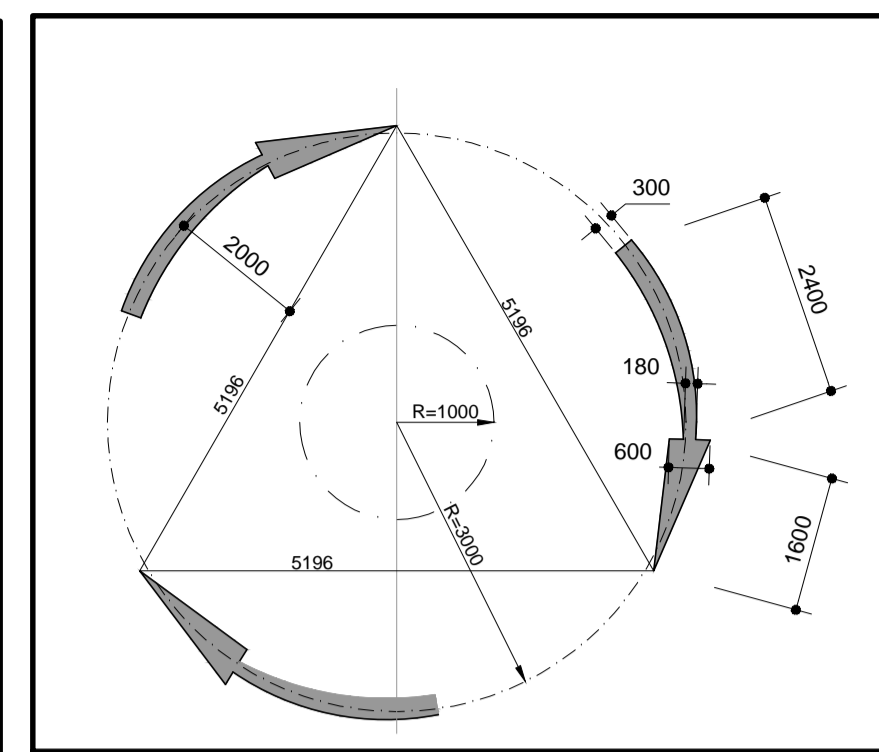
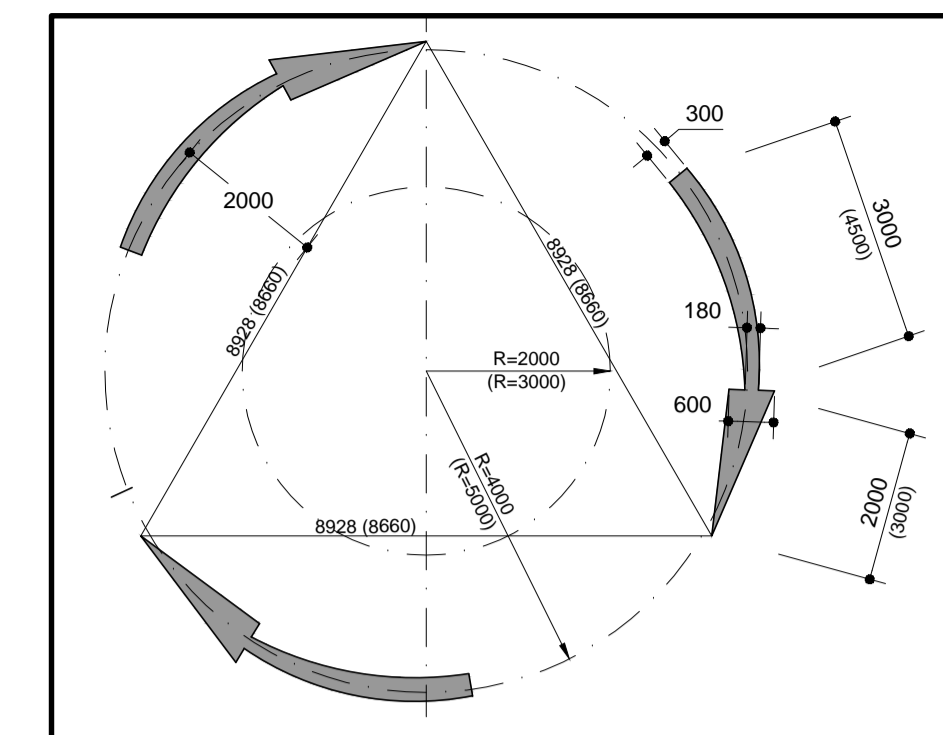


**MINI-CIRCLE PROFILE AND PAINT MARKINGS AND EDGE**

SCALE 1: 100



**PAINTED TRAFFIC CIRCLES WITH DIAMETER 2m**



**PAINTED TRAFFIC CIRCLES WITH DIAMETER 4m AND 6m**

**RM15 - DETAIL OF CIRCLE ARROWS  
(ACCORDING TO DESIGN SASC-RTSM-VOL 4)**

SCALE 1: 100

**NOTES AND SPECIFICATIONS**

**CONSTRUCTION METHOD: SPEED HUMPS**

1. Setting out of hump - few days before construction.
2. Saw cuts one to two days before construction.

**ON CONSTRUCTION DAY:**

3. Remove 500 mm asphalt strips.
4. Start erecting road signs and paint warning road marking.
5. Place asphalt in strips and compact with two passes without vibrator.
6. Place templates - both sides of one lane at a time.
7. Place asphalt and rake till slightly higher than templates.
8. Shape asphalt with straight edge (channel section 6 m long).
9. Remove templates and compact without vibrator (three passes)
10. Measure profile and rectify if necessary.
11. Final compaction with three to four passes with vibrator.
12. Place road studs.
13. Paint speed hump the next day.

**2. Traffic Signs:**

2.1 Only galvanised bolts and nuts to be used on W and R series (no uni-struts)

2.2 All signs must be according to the Road Traffic Signs Manuals but use 900Φ STOP (60km/h zone) for 3-way and 4-way stops

2.3 All signs excluding R1 series must have rounded edges

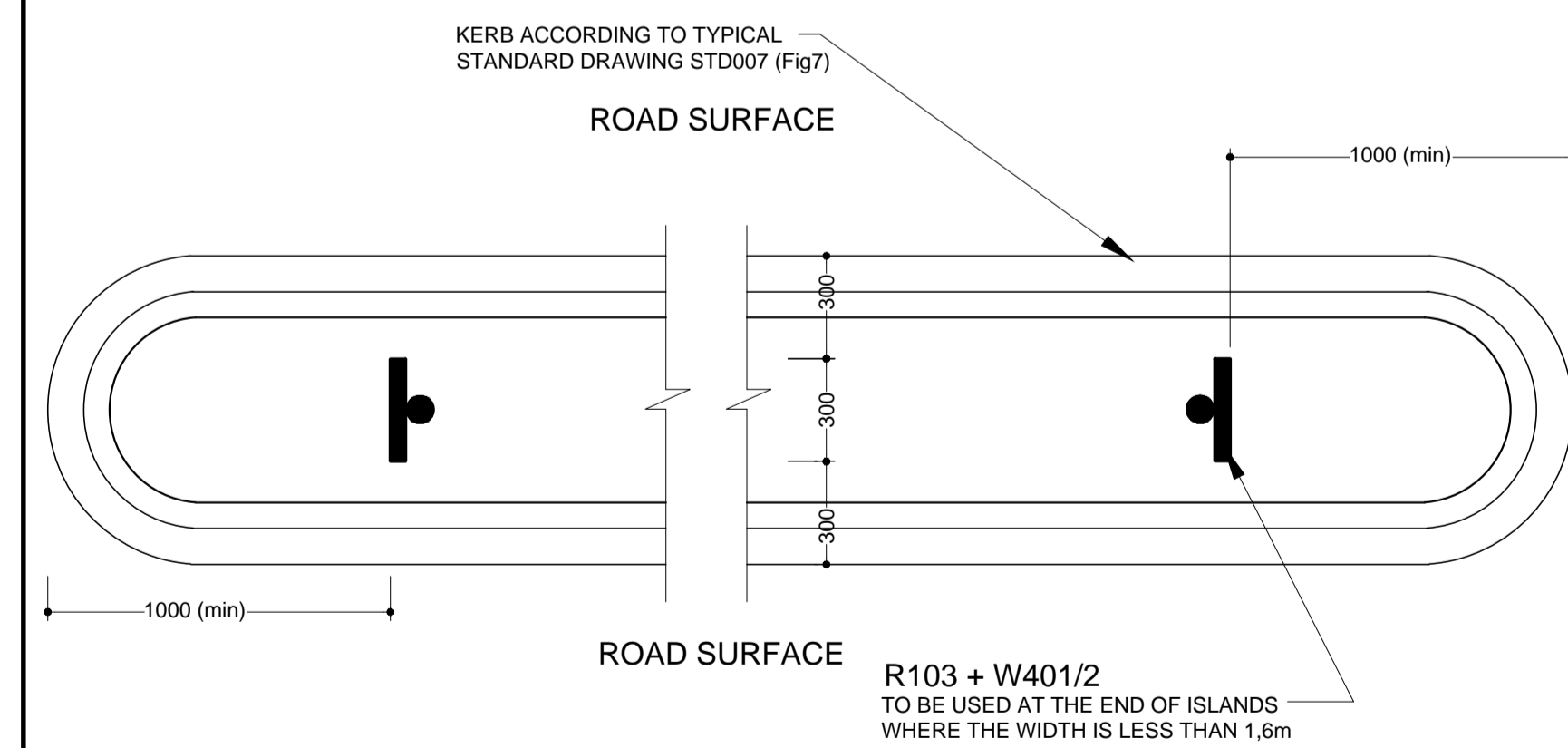
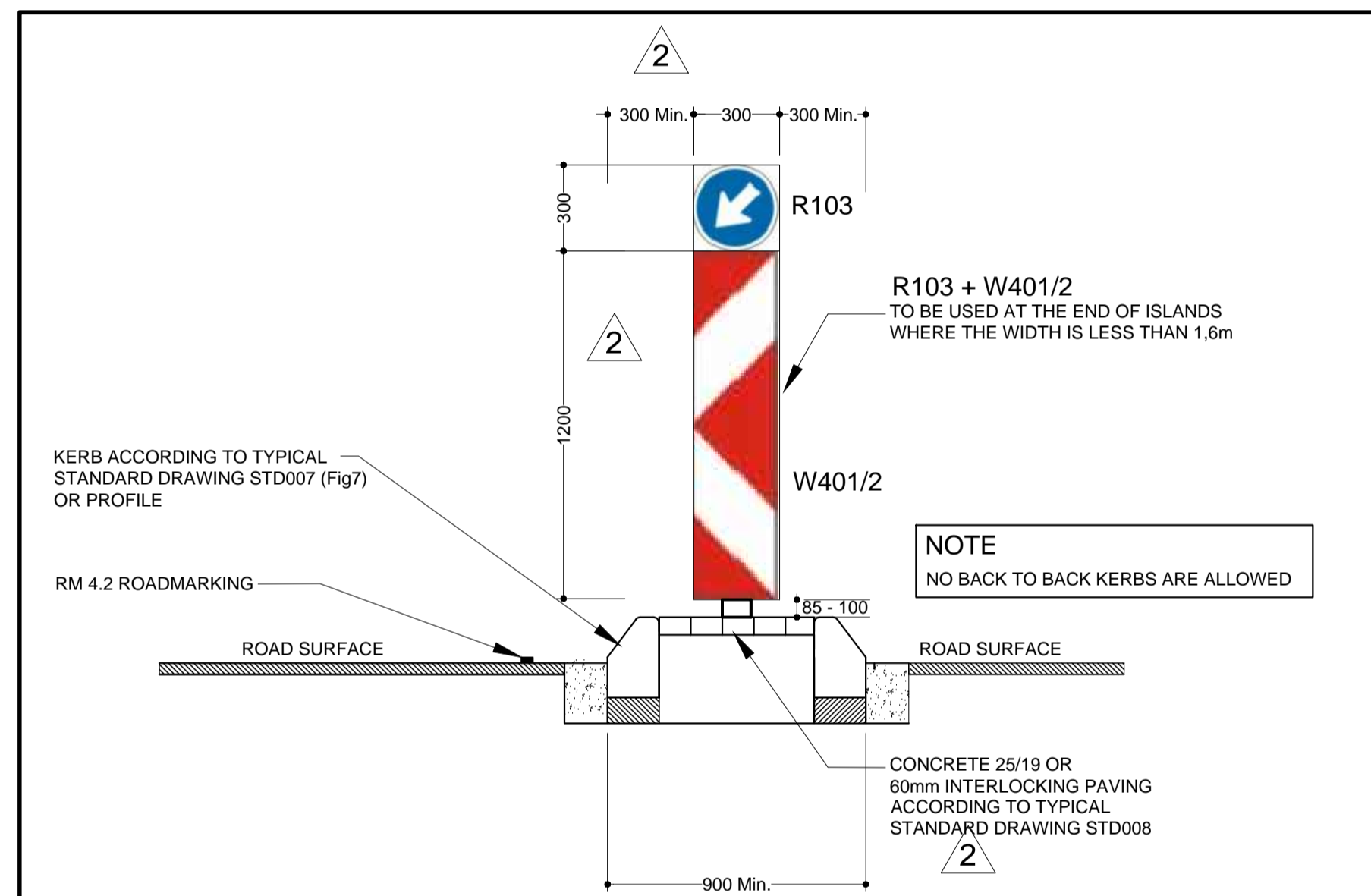
**3. ROADMARKINGS:**

All new road markings in thermoplastic

Colour	Paint application rate (mm)	Premix bead application rate (%)	Initial coefficient of retro-reflective (minicandelas/lux/m²)
WHITE	1.2	35	200
YELLOW	1.2	35	135

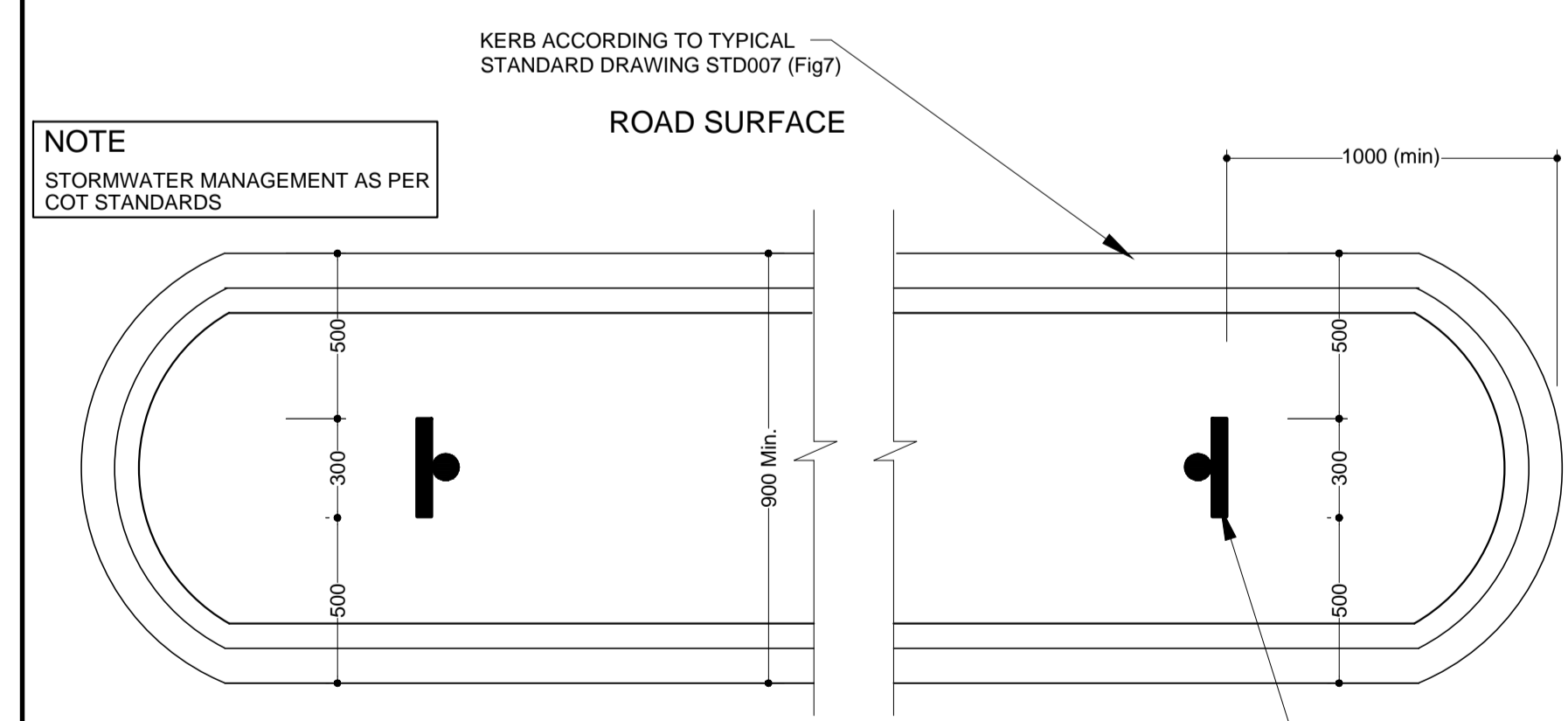
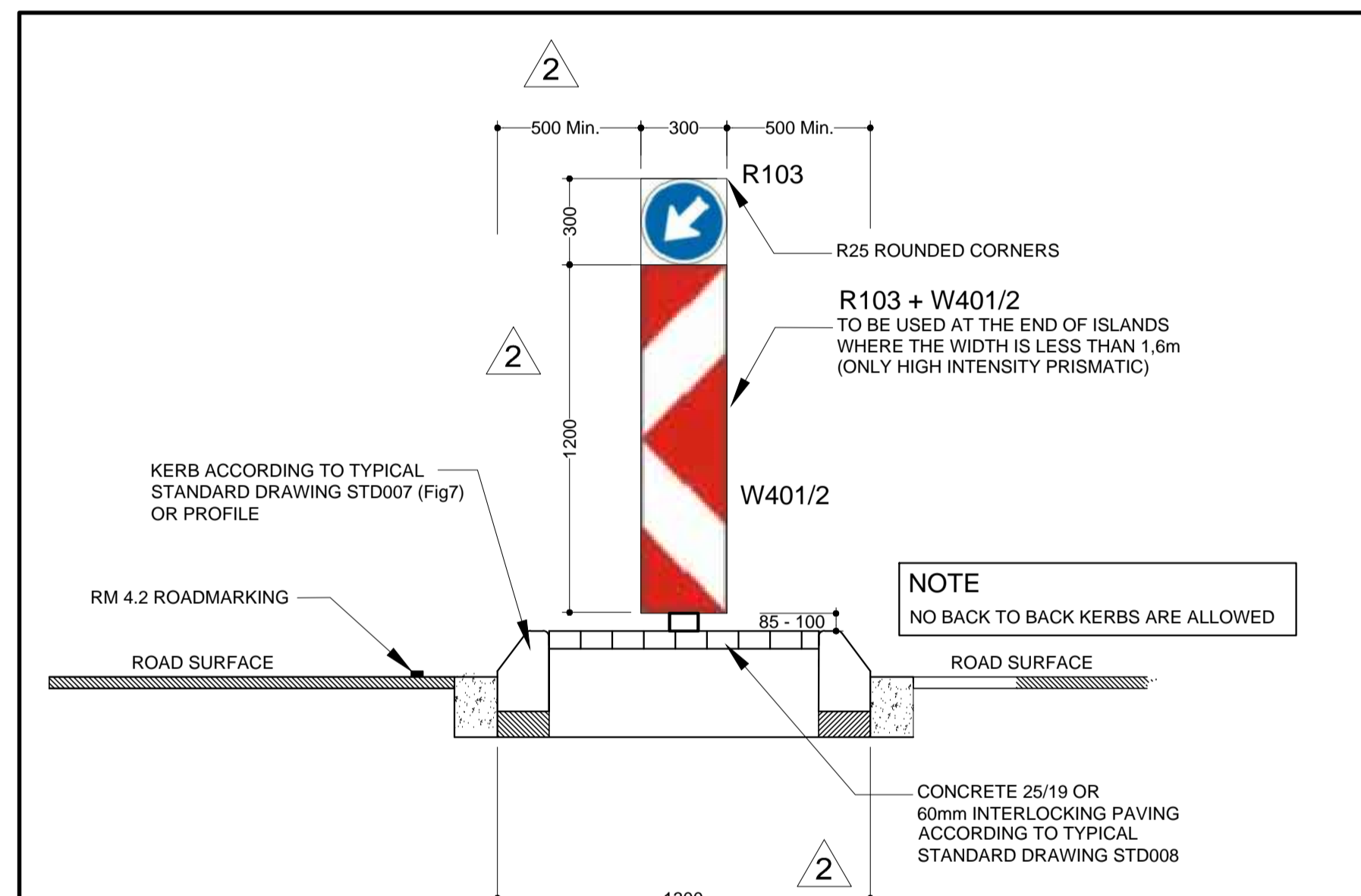
**NOTE:**

The Traffic Engineering and Operation section must always be consulted to assist with the setting out of speed humps.



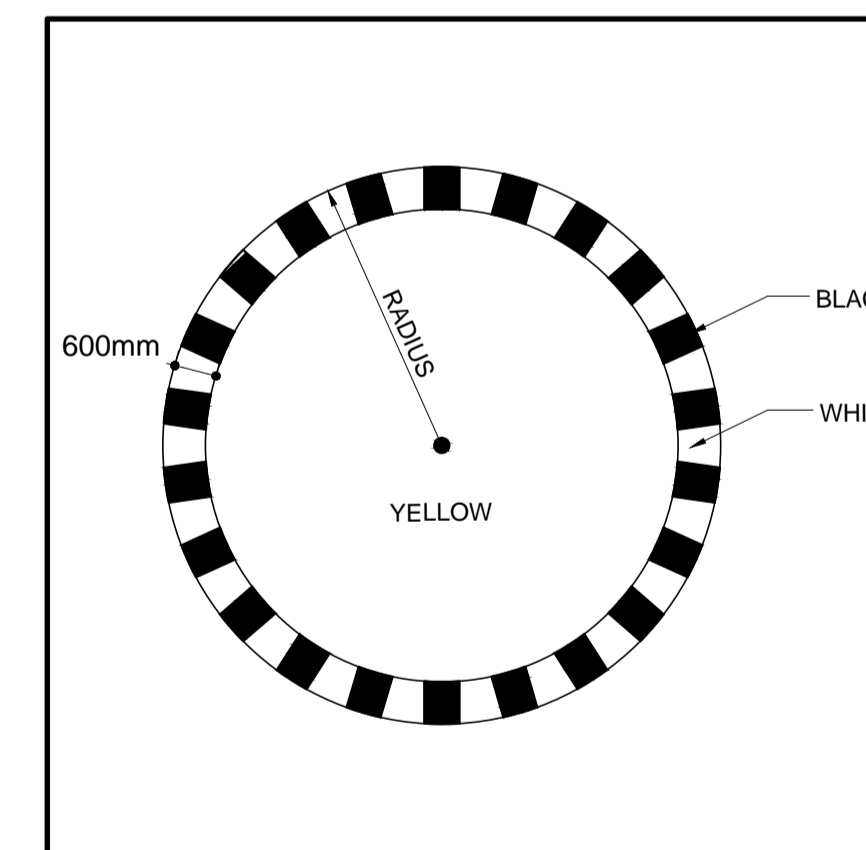
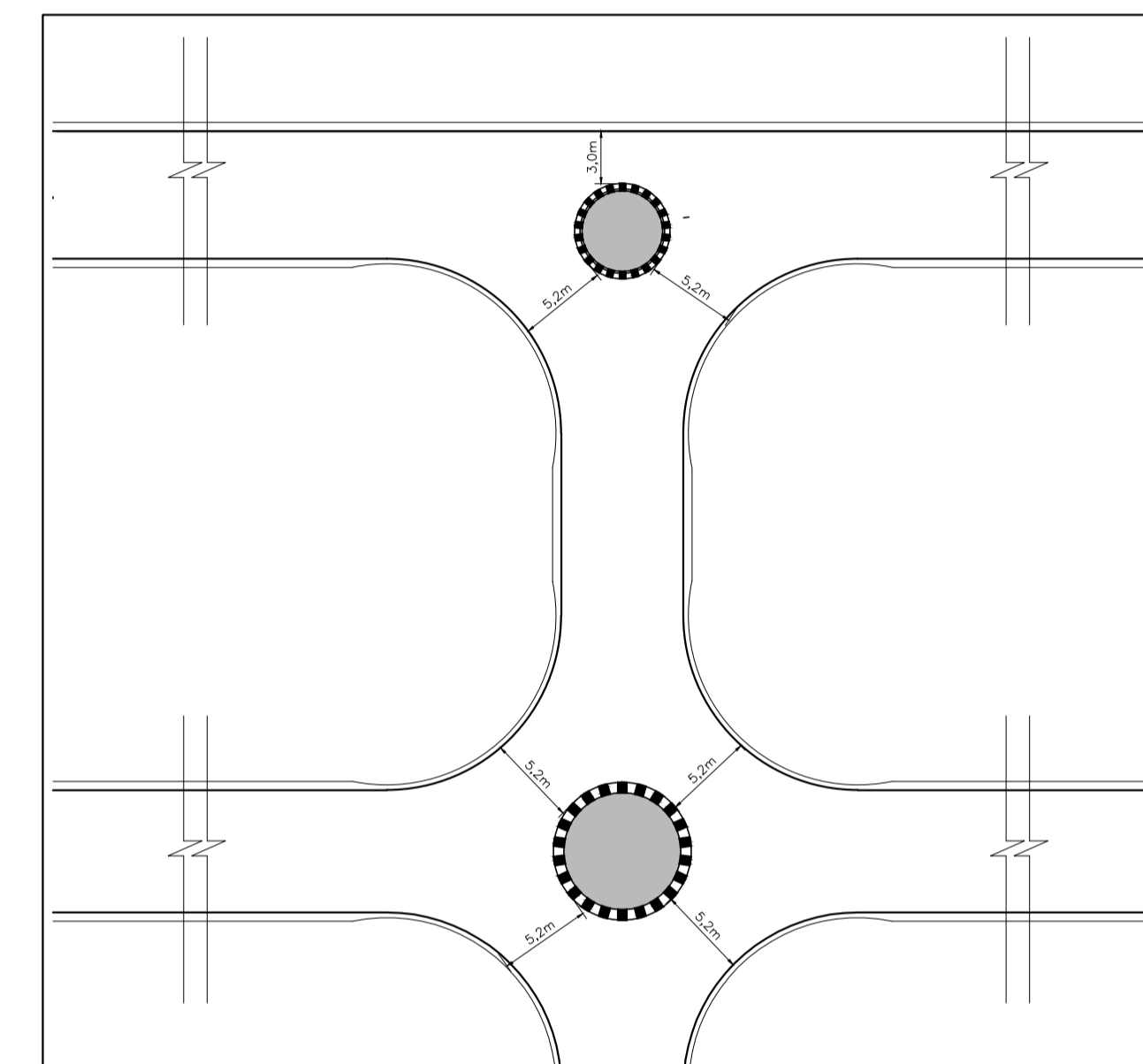
**ISLAND AT SECURITY ENTRANCE ONLY**

SCALE 1:20



**MIN WIDTH OF: ISLAND END POINT, MEDIAN ISLAND AND SPLITER ISLAND**

SCALE 1:20



**NOTE:**  
SPACING OF BLACK/WHITE MARKINGS ARE ± 600/ 600mm INTERVALS.

**SIZE AND POSITION OF MINI-CIRCLE IS DETERMINED BY INTERSECTION DESIGN / LAYOUT**

SCALE 1: 100

ROADS AND STORMWATER	
For Internal Approval	
DIRECTOR: INFRASTRUCTURE PROJECTS	SIGNATURE _____ DATE _____
DIRECTOR: INFRASTRUCTURE CONSTRUCTION PROJECTS MANAGEMENT	SIGNATURE _____ DATE _____
DIRECTOR: INFRASTRUCTURE ASSET MANAGEMENT	SIGNATURE _____ DATE _____
DIRECTOR: TRANSPORT INFRASTRUCTURE PLANNING	SIGNATURE _____ DATE _____
DIRECTOR: INTELLIGENT TRANSPORT SYSTEMS AND TRAFFIC ENGINEERING	SIGNATURE _____ DATE _____
DIRECTOR: INFRASTRUCTURE MAINTENANCE MANAGEMENT (IMM)	SIGNATURE _____ DATE _____

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAR.

DESIGNED C.B. RAMEKANE	DRAWN S. AUDIE
DESIGN CHECKED BY S. NAIDOO	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT D.J. CHALMERS

PROJECT ENGINEER (CONSULTANT)	INSPECTOR OF WORKS (CITY OF TSHWANE)
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PROJECT STATUS			
CONCEPT DRAWING	TENDER DRAWING	APPROVED FOR CONSTRUCTION DRAWING	AS BUILT DRAWING
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE

**CITY OF TSHWANE**  
ROADS AND TRANSPORT DEPARTMENT

Mr. P. Letlonkane  
STRATEGIC EXECUTIVE DIRECTOR

Ms. L. V. Kegakile-Paki  
EXECUTIVE DIRECTOR

P.O. BOX 1409  
PRETORIA 0001

DRAWING APPROVED BY EXECUTIVE DIRECTOR  
Ms. L. V. Kegakile-Paki

**TYPICAL STANDARD DETAILS**

DESCRIPTION OF PROJECT  
**TRAFFIC CALMING MEASURES**  
MINI-CIRCLE ROAD MARKING DETAILS

CONTRACT No.:	PROJECT No.:
DATE: MAY 2013	SCALE: AS SHOWN
DRAWING NO. <b>STD016</b>	SHEET NO. 7 OF 7