REGULATORY MARKINGS

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Marking		Dimensions			
Reference Number	Descriptions	(mm)			
(Colour)		Rural	Urban		
4.1 Regulatory Transve	4.1 Regulatory Transverse Markings:				
RTM1	STOP Line	Width	Width		
(White)		500 ●	300 ●		
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N.B. RTM1 stopline shall only be used in conjunction with stop sign R1 or with Traffic Signals. Word "STOP" GM7 in 5500 letters should be used on all applications on Class B road junctions.

RTM2	YIELD Line	Width	Width
(White)	TIELD LINE	300 ●	200 ●
		Line-Gap	Line-Gap
		600-300	600-300

N.B. RTM2 Yield Line shall only be used in conjunction with Yield Signs R2, R2 1 or R2 2 Markings WM5 should be used on all applications on Class B road junctions.

RTM3	Pedestrian	Width	Width
(White)	Crossing Lines	100 ●	100 ●
	(2,4 m Apart Min)		

4.2 Regulatory Markings:

4.2 Regulatory Markii	ngs.		
RM1	No Overtaking Line	Width	Width
(White)		150 ●	150 ●
		Continuous	Continuous
	(Min "Stacking"Length)	12000	9000

N.B. RM1 No Overtaking Line is only used between traffic streams travelling in opposite directions, and is normally used in conjunction with WM3 Dividing Line.

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RM2	No Crossing Lines	Width	Width
(White)	No Crossing Lines	2X100●	2X100●
RM3	Channelizing	Width	Width
(White)	(For Stacking)	100 ●	100 ●
		200	200
	Freeway Applications	300	
		Continuous	Continuous
	(Min "Stacking"Length)	12000 •	9000 •

N.B. RM3 Channelizing Line is only used between traffic streams travelling in the same direction, and is normally preceded by a section of WM2 Continuity Line.

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Marking		Dime	nsions
Reference Number	Descriptions	(mm)	
(Colour)		Rural	Urban
RM4.1	Left Edge Line	Width	Width
(Yellow)		100 ●	100 ●
	For freeways and	150	
	4-lane divided		
	roadways	Continuous	Continuous

N.B. RM4.1 Left Edge Line shall be used when the total surface width exceeds 8 m.

RM4.2	Right Edge Line	Width	Width
(White)		100 ●	100 ●
	For freeways and	150	
	4-lane divided		
	roadways	Continuous	Continuous
RM5	Painted Islands	Edge Line Widths	Edge Line Widths
(White & Yellow)		100 ●	100 ●
		Bar Widths	Bar Widths
	Speed < 80 km/h	Solid	Solid
	Island width < 1500-2400	400	400
	Speed < 80 km/h	Solid	Solid
	Island width > 1500-2400	1000	1000
	Speed < 80km/h	Solid	Solid
	Island width 2450-3000	1500	1500
	Speed > 100 km/h	Hollow	Hollow
	Island width > 3000	1500	1500

N.B. 1. Bar dimensions measured along centre line; spacing is double Bar Width.

2. These dimensions to be assessed for individual applications.

RM8.1 to RM8.6	Mandatory Direction	Length	Length
(Yellow)	Arrows		
	50-90 km/h	-	4000
	100-120 km/h	5000	5000

• INDICATES MANDATORY MINIMUM DIMENSION PRESCRIBED BY LEGISLATION

WARNING MARKINGS

Marking		Dimensi	ons
Reference Number	Descriptions	(mm)	
(Colour)		Rural	Urban
.3 Warning Markings	:		
WM2	Continuity Line	Width	Width
(White)	Minimum	200 •	200 ●
	Freeways	300	
		Module	Module
		12000	9000
WM2-1	Reduced	Line/Gap	Line/Gap
		2m/10 m	1,5 m/7,5 m
WM2-2	Standard	Line/Gap	Line/Gap
		2m/4 m	1,5 m/3 m
WM2-3	Extra	Line/Gap	Line/Gap
		2m/2 m	1,5 m/1,5 m

N.B. WM2 Continuity Lines are normally only used between traffic streams travelling in the same direction, and are usually followed by RM3 Channelizing Line.

WM3	Dividing Line	Width	Width
(White)		150 ●	150 ●
		Module	Module
		12000	9000
	Standard	Line/Gap	Line/Gap
		4 m/8 m	3 m/6 m

N.B. WM3 Dividing Line is only used between traffic streams travelling in opposite directions, and is normally used in conjunction with RM1 No Overtaking Line.

Marking		Dime	ensions
Reference Number	Descriptions	(mm)	
(Colour)		Rural	Urban
WM5	Yield Control Ahead	Length	Length
(White)	50-60 km/h		2500
	70-120 km/h	4000	4000
WM6.1 to WM6.5	Lane Reduction Arrows	Length	Length
(White)	70-90 km/h	7500	7500
	100-120 km/h	12000	
WM7.1 to WM7.6	Mandatory Direction	Length	Length
(White)	Arrow Ahead		
	50-90 km/h		4000
	100-120 km/h	5000	5000
WM8.1 to WM8.3	No Overtaking Line	Length	Length
(White)	Ahead Arrow	4000	3000

N.B. The length of the WM8 marking shall be the same as the length of the Dividing Line Marking WM3.

NOTE:

• INDICATES MANDATORY MINIMUM DIMENSION PRESCRIBED BY LEGISLATION

GUIDANCE MARKINGS

Marking		Dimensions	
Reference Number	Descriptions	(mm)
(Colour)		Rural	Urban
4 Guidance Markings			
GM1	Lane Line	Width	Width
(White)		100 ●	100 ●
		Module	Module
		12000	9000
GM1-1	Reduced	Line/Gap	Line/Gap
		2 m/1 0m	1,5 m/7,5 m
GM1-2	Standard	Line/Gap	Line/Gap
		2 m/4 m	1,5 m/3 m
GM1-3	Extra		Line/Gap
			1,5 m/1,5 m

N.B. GM1 Lane Line is used between traffic streams<u>tra</u>velling in the same dirction.

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GM2	Guide Line	Width	Width
(White)		100 ●	100 ●
		Line/Gap	Line/Gap
		500/1500	500/1500
GM3.1 to GM3.3	Bifurcation Arrows	Length	Length
(White)	70-90 km/h		5000
	100-120 km/h	7500	7500
GM7	Word Markings	Length	Length
(White or Yellow)	(Including "STOP)		4000
		5500	5500

• INDICATES MANDATORY MINIMUM DIMENSION PRESCRIBED BY LEGISLATION

NOTES AND SPECIFICATIONS

ROAD MARKING NOTES

- 1. EXISTING ROAD MARKINGS NOT AFFECTED SHALL BE LEFT AS THEY ARE AND REPAINTED WITHIN THE LIMITS OF CONSTRUCTION.
- 2. EXISTING ROAD MARKINGS WHICH ARE IN CONFLICT WITH THE NEW ROAD MARKINGS MUST BE REMOVED BEFORE THE NEW MARKINGS ARE PAINTED.
- 3. All REMOVAL OF ROAD MARKINGS WILL BE DONE BY MEANS OF SAND BLASTING OR SIMILAR APPROVED METHOD.
- 4. ALL ROAD MARKINGS MUST BE CHECKED AND APPROVED AT PRE-MARKING
- STAGE BY TSHWANE ENGINEERS BEFORE ANY PAINTING TAKES PLACE 5. ALL ROAD MARKINGS TO BE PAINTED TO THE REQUIREMENTS OF
- 6. THE LENGTH OF THE ARROW ROAD MARKINGS MUST COMPLY WITH THE ROAD TRAFFIC SIGNS MANUAL VOLUME 4 CHAPTER 12.
- 7. All NEW SURFACING MARKINGS DONE IN THE FIRST 4 WEEKS WILL BE REGARDED AS TEMPORARY.

8. ALL TEMPORARY MARKINGS CAN BE DONE IN WATER BASE PAINT.

ROAD PAINT SPECIFICATIONS 1. ALL LONGITUDINAL ROAD MARKINGS TO BE 1.2mm THERMOPLASTIC.

- 2. ALL SMALL HAND TYPE MARKINGS NAMELY STOP LINES, YIELD LINES, PEDESTRIAN CROSSING LINES, BLOCK PEDESTRIAN CROSSINGS, SPEED HUMPS, ARROWS AND SYMBOLS TO BE IN THERMOPLASTIC (1.2mm THICK) OR TWO COMPONENT COLD PLASTIC (MMA - METHYL METHACRYLATE) APPLIED AS A SCREED (1MM THICK). PLASCON BRICK AND CONCRETE MARKING PAINT CODES BTP 1 (WHITE) AND BTP 28 (BLACK) SHALL BE USED
- FOR PAINTING OF KERBS . 3. THE FOLLOWING APPLICATION RULES WILL APPLY:

PAINT MARKING APPLICATION RATES:					
COLOUR	PAINT APPLICATION RATE (mm)	GLASS BEAD APPLICATION RATE (%)	INITIAL COEFFICIENT OF RETRO- REFLECTIVITY (MINICANDELAS/LUX/m²)		
WHITE	1.2	35	250		
YELLOW	1.2	35	135		

4. ALL SERVICE MARKERS LETTERS TO BE PAINTED ON CONCRETE KERBS. WITH BLACK PAINT ON WHITE PAINTED BACKGROUND, ACCORDING TO COT DETAIL DRAWING 7515-W211

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MANAGEMENT
D.J. CHALMERS

CITY OF TSHWANE **ROADS AND TRANSPORT DEPARTMENT**

GROUP HEAD Mr Letlonkane P. (Pheko)

P.O. BOX 1409 PRETORIA TRANSPORT INFRASTRUCTURE DESIGN AND CONSTRUCTION DIVISIONAL HEAD Mr K TIhagale (Marven)

TSHWANE

TRANSPORTATION PLANNING DIVISIONAL HEAD Mr L. Swanepoel (Lourens)

DIVISIONAL HEAD Mr Marven K Tlhagale

P.O. BOX 1409

PRETORIA

DRAWING APPROVED BY GROUP HEAD Mr Letlonkane P. (Pheko)

TYPICAL STANDARD **DETAILS**

ROAD MARKINGS

ROAD MARKINGS DETAILS

CONTRACT No. :		PROJECT No. :				
DATE :	SCALE :		ORIGINAL F	PAPER SIZE:	1	
NOVEMBER 2020	NOT TO	SCALE	A1			
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