

APPLICATIONS

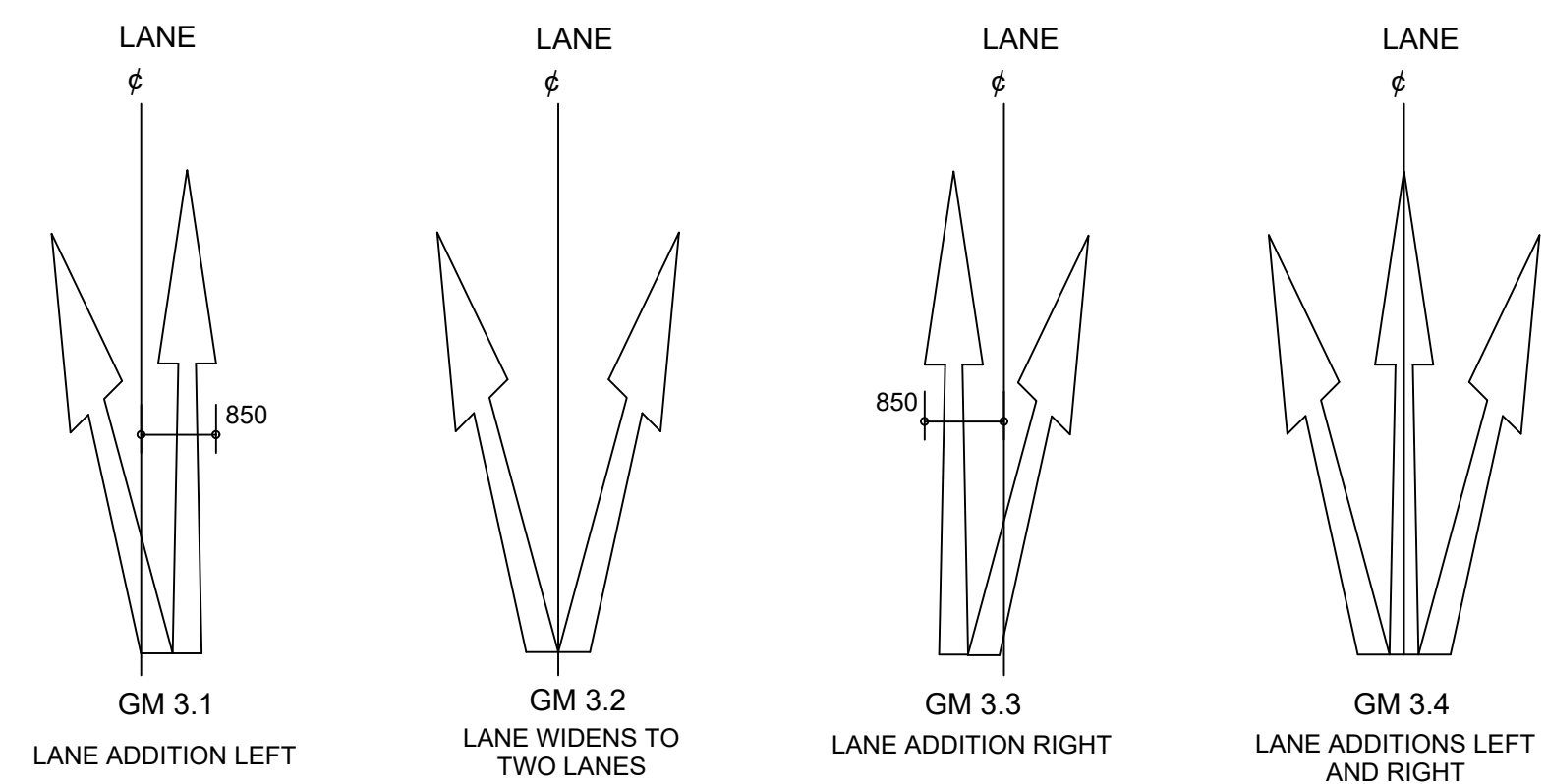
DIMENSIONS (mm)													SCALE: 1:50									
Operating Speed km/h	Special Applications	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r			
30 - 40	City Centre	2500	600	350	450	884	200	417	1000	1700	250	550	1250	700	380	1450	58	30	29			
50 - 90	Urban/Rural Expressway	4000	900	560	720	1406	320	666	1600	2720	400	880	2000	1120	608	2320	93	48	46			
100 - 120	Rural and Freeways	5000	1200	700	900	1767	400	833	2000	3400	500	1050	2500	1400	780	2800	116	60	58			
	Special Applications	7500	1800	1050	1350	2651	600	1250	3000	5100	750	1650	3750	2100	1140	4350	174	90	87			

All Operating Speeds and Applications	N	O	P	Q	R	S	T
	210	180	350	300	500	400	600

ARROW AREA / (m ²)				
a	RM8.1/RM8.5 WM7.1/WM7.5	RM8.2/RM8.4 WM7.2/WM7.4	RM8.3 WM7.3	RM8.6 WM7.6
2500	0.67	0.89	0.66	1.03
4000	1.14	1.43	1.06	1.68
5000	1.45	1.78	1.32	2.12
7500	2.23	2.66	1.98	3.20

NOTES: (MANDATORY DIRECTION ARROWS)

1. THESE ARROWS MAY BE USED IN LANES TO INDICATE THAT DRIVERS SHALL PROCEED ONLY IN THE DIRECTION OR DIRECTIONS SHOWN. THEY SHOULD ONLY BE USED IF THE JUNCTION CONCERNED REQUIRED TURNING MOVEMENT CONTROL BY LANE.
2. THE FINAL ARROW NEAREST THE POINT OF TURN OR STRAIGHT ON MOVEMENT SHALL BE YELLOW. ANY ARROWS MARKED IN ADVANCE OF THIS POINT TO WARN DRIVERS OF THE MANDATORY MOVEMENT AHEAD SHALL BE WHITE.
3. A MANDATORY OR WARNING DIRECTION ARROW SHALL NOT BE USED IN ADVANCE OF A WIDENING OF THE ROADWAY TO A GREATER NUMBER OF LANES. THIS SHALL BE INDICATED IF NECESSARY, BY USING FURCATION ARROWS.



APPLICATIONS

SCALE 1 : 50

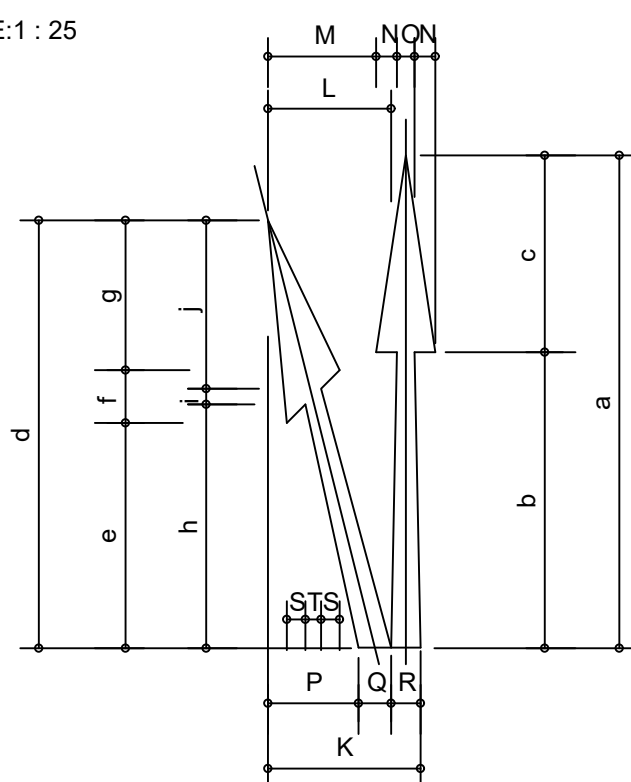
DIMENSIONS (mm)											
Operating Speed km/h	Typical Applications	a	b	c	d	e	f	g	h	i	j
30 - 40	City Centre	2500	1500	1000	2170	1141	268	761	1235	81	855
50 - 60	Urban Roads	4000	2400	1600	3472	1826	429	1216	1976	129	1367
70 - 90	Urban Arterial Roads/ Rural Expressways	5000	3000	2000	4340	2282	536	1522	2470	161	1709
100 - 120	Rural Roads and Freeways	7500	4500	3000	6510	3423	804	2263	3705	242	2564

All Operating Speeds and Applications	K	L	M	N	O	P	Q	R	S	T
	1700	1250	1100	210	180	921	329	300	188	161

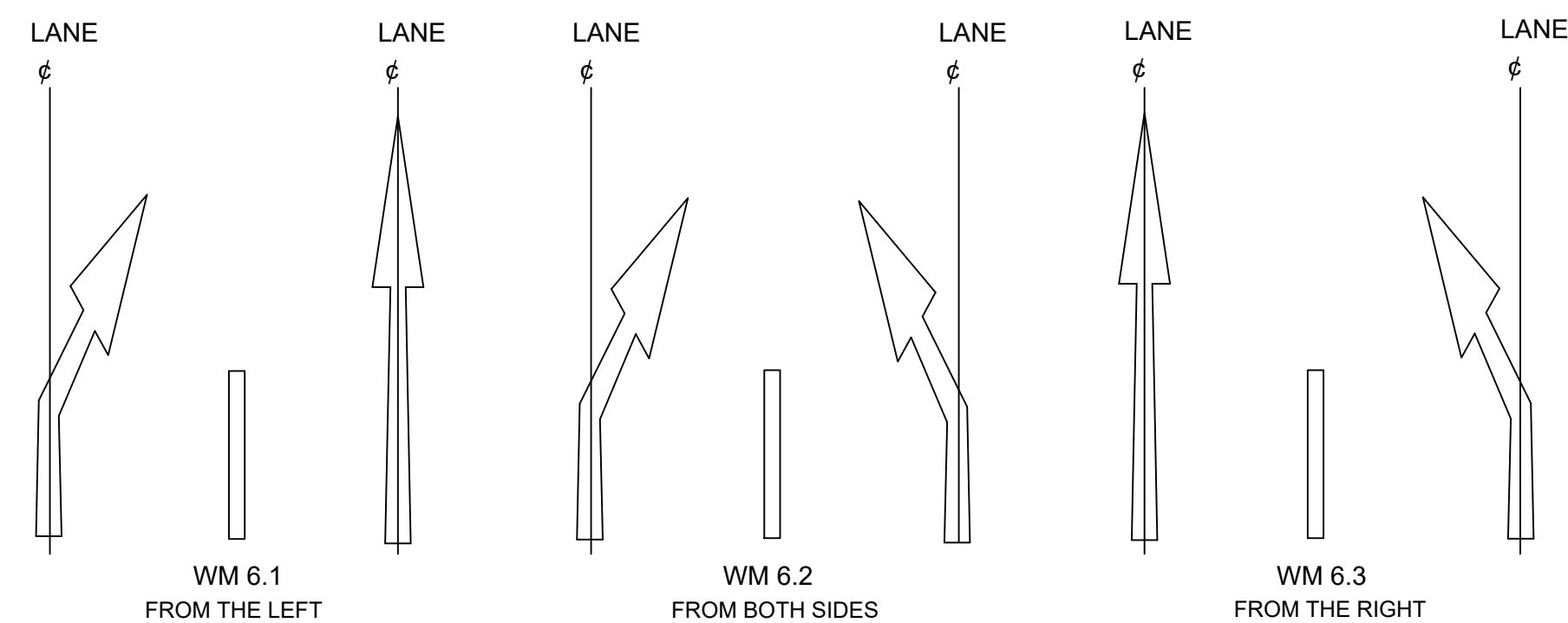
ARROW AREA / (m ²)			
a	GM3.1/GM3.3	GM3.2	GM3.4
2500	1.30	1.27	1.93
4000	2.07	2.04	3.09
5000	2.59	2.55	3.87
7500	3.89	3.82	5.80

NOTES: (FURCATION ARROWS)

1. THESE ARROWS MAY BE USED TO INDICATE THAT THE NUMBER OF LANES IS INCREASING AHEAD. ONLY ONE SET OF ARROWS SHOULD BE USED UNLESS A LEFT AND RIGHT TURN LANE ARE ADDED TO A MULTI-LANE ROADWAY AT THE SAME POINT WHERE TWO SETS MAY BE USED.
2. DIRECTION ARROWS AHEAD SHALL NOT BE USED TO INDICATE THE ADDITION OF LANES AHEAD.
3. AS A GENERAL RULE BIFURCACTION ARROWS SHOULD BE LOCATED TWO TO THREE MARKING MODULES BEFORE THE START OF THE LANE GENERATING TAPER OR CURVE.



FURCATION ARROWS



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DIMENSIONS (mm)											
Operating Speed km/h	Typical Applications	a	b	c	d	e	f	g	h	i	j
30 - 40	City Centre	4000	2400	1600	3200	1271	647	227	855	1606	1277 1126
50 - 60	Urban Roads	5000	3000	2000	4000	1559	1058	284	1069	2120	1596 1407
70 - 90	Urban Arterial Roads/ Rural Expressways	7500	4500	3000	6000	2384	1587	426	1603	3180	2394 2111
100 - 120	Rural Roads and Freeways	12000	7200	4800	9600	3814	2539	681	2556	5089	3830 3477

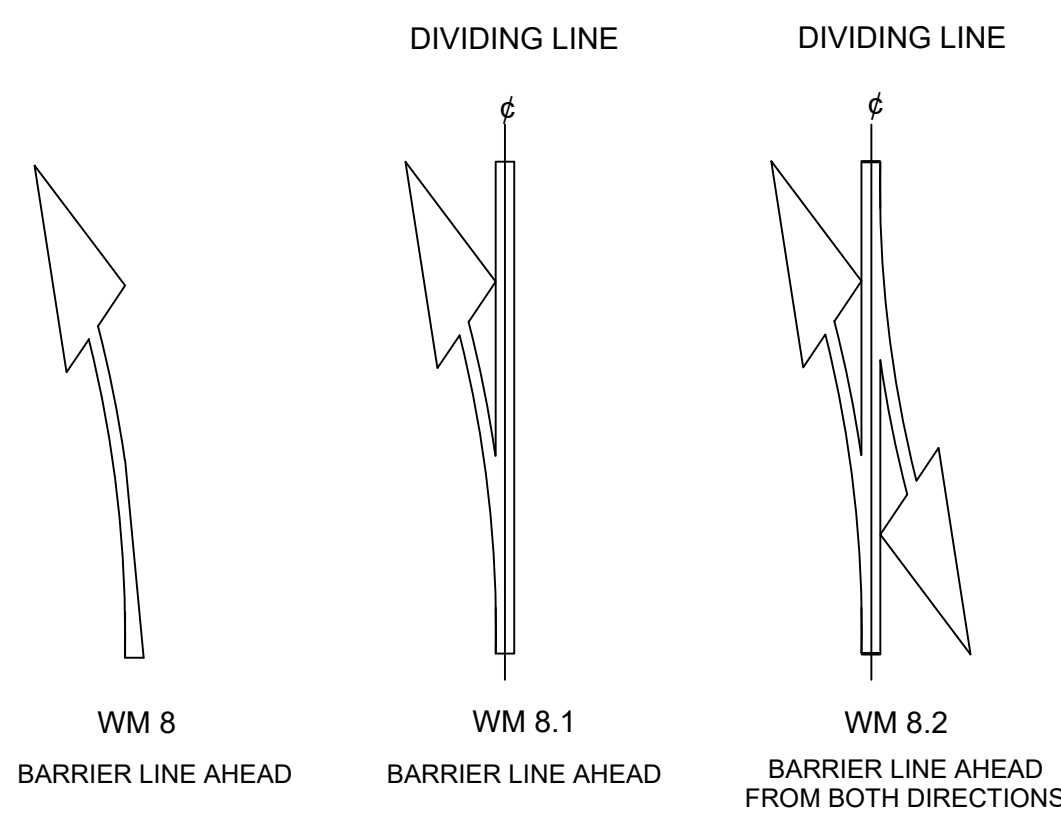
All Operating Speeds and Applications	M	N	O	P	Q	R	S	T	U	V
	300	210	180	1300	898	402	155	370	32	390

NOTES: (LANE REDUCTION ARROWS)

1. IT IS RECOMMENDED THAT THREE SETS OF ARROWS BE USED ON HIGH SPEED ROADS, SPACED AT FOUR MODULE INTERVALS BEFORE THE END OF THE LANE LINE. SINGLE ARROWS SETS MAY BE USED ON LOWER SPEED ROADS.
2. THE BENT ARROWS MAY BE USED IN ADDITION TO THE THREE-ARROW SETS ALONG THE LENGTH OF THE LANE REDUCTION TAPER.

ARROW AREA / (m ²)		
a	WM6.1/WM6.3	WM6.2
4000	2.08	2.06
5000	2.61	2.58
7500	3.92	3.88
12000	6.56	6.20

LANE REDUCTION ARROWS



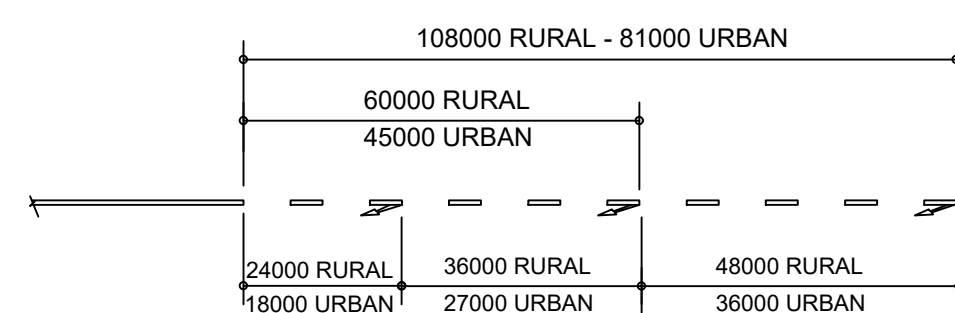
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SCALE 1 : 50

DIMENSIONS (mm)										
Typical Applications	a	b	c	d	e	f	g	h	r	r*
Urban	3000	1941	83	976	1741	528	731	1208	5620	5820
Rural	4000	2588	111	1301	2321	704	975	1608	9900	10000

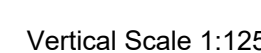
All Applications	H	I	J	K	L	M
	735	260	181	219	75	100 or 150




MARKING SPACING



ARROW AREA / (m ²)	
a	Per Arrow
3000	0.62
4000	0.82

BARRIER LINE AHEAD ARROWS



DRAWING CHECKED	 <div>16 A Church Street Polokwane,0700</div> <div>P. O BOX 233 FAUNA PARK,0787</div> <div>TEL:015 291 3320 TEL:015 295 2116 t2ce@mweb.co.za</div>	 <div>BLOUBERG MUNICIPALITY No.5 SOUTH STREET OFFICE PARK POLOKWANE,0700</div> <div>P. O BOX 1593 SENWABARANWA</div> <div>TEL:015 505 7100 TEL:015 505 0568/0296 blou@bloubergmunicipality.co.za</div>	CONTRACT NUMBER : BM02/17/18				SCALES	
DRAWN BY			CONSTRUCTION OF AVON INTERNAL STREETS AND STORMWATER BLOUBERG MUNICIPALITY					
DESIGN CHECKED			ROAD MARKINGS					DRAWING NUMBER
								T 1508/BM/TCS/01
DESIGNED BY					DATE	REVISION		