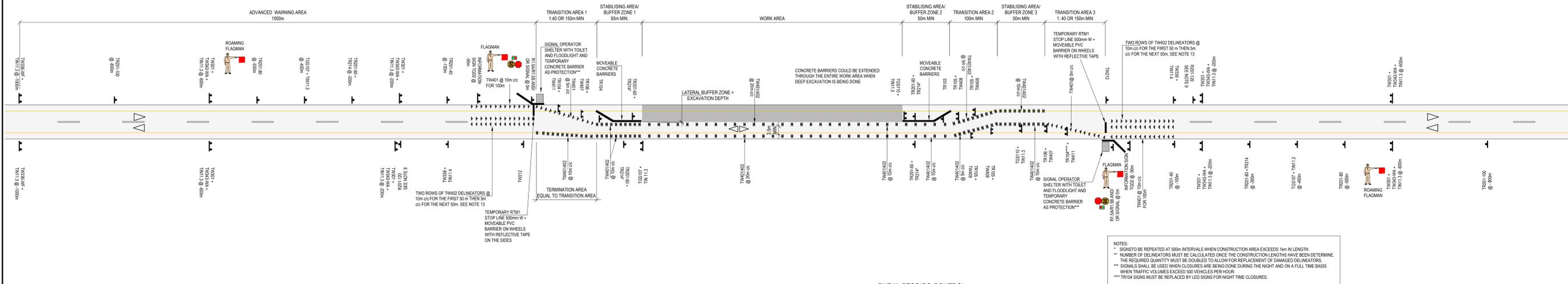


WORK AREA (DEMARCATED BY DELINEATORS AT 30m c/c)

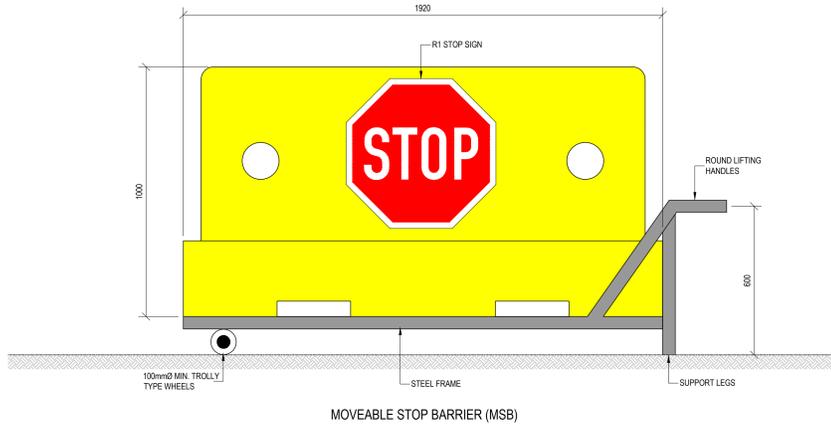


RURAL STOP/GO CONTROL
LONG-TERM WORKS
100 - 120km/h

- NOTES:
- * SIGNS TO BE REPEATED AT 50m INTERVALS WHEN CONSTRUCTION AREA EXCEEDS 1km IN LENGTH.
 - ** NUMBER OF DELINEATORS MUST BE CALCULATED ONCE THE CONSTRUCTION LENGTH HAS BEEN DETERMINED. THE REQUIRED QUANTITY MUST BE DOUBLED TO ALLOW FOR REPLACEMENT OF DAMAGED DELINEATORS.
 - *** SIGNALS SHALL BE USED WHEN CLOSURES ARE BEING DONE DURING THE NIGHT AND ON A FULL TIME BASIS WHEN TRAFFIC VOLUMES EXCEED 100 VEHICLES PER HOUR.
 - **** TR104 SIGNS MUST BE REPLACED BY LED SIGNS FOR NIGHT TIME CLOSURES.

SIGN CODE	SIGN FACE	SIGN SIZE	MATERIAL	QUANTITY	SIGN CODE	SIGN FACE	SIGN SIZE	MATERIAL	QUANTITY	SIGN CODE	SIGN FACE	SIGN SIZE	MATERIAL	QUANTITY	SIGN CODE	SIGN FACE	SIGN SIZE	MATERIAL	QUANTITY	
TR208-WF + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS IV	4	TR102		1742mm x 2650mm	YELLOW CLASS II	2	TR107 + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS II	2	TR101		200mm x 800mm	YELLOW CLASS II	200**	
TR201-100		1200mm DIA.	YELLOW CLASS II	2	TR214		1200mm DIA.	YELLOW CLASS II	4	TR105		1200mm DIA.	YELLOW CLASS II	4	TR102		200mm x 800mm	YELLOW CLASS II	200**	
TR201 + TR243-WA + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS II	4	TR201 + TR243-WA + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS II	4	TR210 + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS II	1	TR103		1200mm DIA.	YELLOW CLASS II	1	
TR201-80		1200mm DIA.	YELLOW CLASS II	2	TR201-40		1200mm DIA.	YELLOW CLASS II	2	TR106		1200mm DIA.	YELLOW CLASS II	2	R201-120		1200mm DIA.	WHITENED CLASS II	2	
TR201 + TR113		1800mm x 2400mm 1800mm x 400mm	YELLOW CLASS II	2	TR208 + TR114		1500mm 1000mm x 400mm	YELLOW CLASS II	2	TR107		1800mm x 600mm	YELLOW CLASS II	2	FLAGMAN & RT 5B		1200mm DIA.	CLASS IV FLUORESCENT YELLOW	2	
TR201-60		1200mm DIA.	YELLOW CLASS II	4	TR104		1200mm DIA.	YELLOW CLASS II	3	TR108		1800mm x 600mm	YELLOW CLASS II	4	FLAGMAN & RT 5A		1200mm DIA.	CLASS II RED/WHITE	2	
					TR104 LED		1200mm DIA.	YELLOW CLASS II	3	TR109		2400mm x 400mm	YELLOW CLASS II	2	ROAMING FLAGMAN		600mm x 600mm (LxW)	RED	2	
										TR110		1500mm	YELLOW CLASS II	2						

- TRAFFIC ACCOMMODATION NOTES:**
- TEMPORARY ROAD SIGN LAYOUTS SHOWN ON THIS DRAWING DEPICT TYPICAL TRAFFIC ACCOMMODATION PROPOSALS.
 - ACTUAL TRAFFIC ACCOMMODATION PROPOSALS TO BE USED ON THE WORKS SHALL BE SUBMITTED TIMELY FOR THE ENGINEER'S APPROVAL. SUCH PROPOSALS SHALL TAKE DUE CONSIDERATION OF ACTUAL CONDITIONS ON THE ROAD. PARTICULAR ATTENTION MUST BE GIVEN TO ACCESSES AND INTERSECTIONS ON THE ROAD.
 - ALL ROAD SIGNS SHALL COMPLY WITH THE SADC ROAD TRAFFIC SIGNS MANUAL (RTSM), COTO AND THE NATIONAL ROAD TRAFFIC ACT AND REGULATIONS.
 - ROAD SIGN PROPOSALS SHALL BE PREPARED TO THE GUIDELINES OF SARTSM VOL2, CHAPTER 13.
 - ROAD SIGN FACE MATERIALS SHALL COMPLY WITH SANS 1519-1. THE ADVANCE WARNING SIGNS TW336-WA OR TW336-WF AND THE RT 5B SIGN SHALL BE CLASS IV YELLOW FLUORESCENT. THE REMAINING ROAD SIGNS SHALL BE CLASS II RETROREFLECTIVE.
 - MINIMUM SIZES OF ROAD SIGNS:
TRIANGULAR: 1500mm SIDE LENGTH
CIRCULAR: 1200mm DIAMETER
DIAGRAMMATIC (TGS): 1200mm x 1600mm ON 80km/h OR LESS ROADS; 1800mm x 2400mm ON 100km/h AND 120km/h ROADS.
TIN: 400mm HIGH, WIDTH TO FIT PRIMARY SIGN
 - DELINEATORS (TW401/TW402) SHOULD BE SO POSITIONED THAT ENCRoACHMENT ON THE ADJACENT RUNNING LANE IS AVOIDED AS FAR AS POSSIBLE. WHENEVER DELINEATORS ARE POSITIONED NEXT TO AN EXCAVATION EXCEEDING 0.5m IN DEPTH, A LONGITUDINAL BUFFER ZONE EQUALING THE DEPTH OF THE EXCAVATION SHOULD BE PROVIDED BETWEEN THE EDGE AND THE TRAVELLED ROADWAY. A NARROWER BUFFER MAY BE CONSIDERED BY THE ENGINEER SHOULD ADDITIONAL PRECAUTIONARY MEASURES SUCH AS CONCRETE BARRIERS, BE IMPLEMENTED.
 - ALL DELINEATORS (TW401/402) SHALL BE MANUFACTURED FROM A FLEXIBLE MATERIAL AND MUST COMPLY WITH SANS 1555. THE MINIMUM NOMINAL SIZE OF DELINEATORS SHALL BE 200mm x 800mm BUT MAY BE INCREASED. CONSIDERATION SHOULD BE GIVEN TO THE SIZE OF DELINEATORS FITTING INTO THE BALLASTS. THE SIGN FACE OF DELINEATORS SHALL BE CLASS II RETROREFLECTIVE FOR THE YELLOW MATERIAL.
 - THE R201 SPEED LIMIT SIGNS BEYOND THE INTERSECTION SHALL AGREE WITH THE SPEED LIMIT SET ON THE SUBSEQUENT SECTION OF ROAD. THE SPEED LIMIT IN THE WORK AREA SHALL BE SET AT A REALISTIC LEVEL. IN AREAS WHERE TRANSITION TAKES PLACE, THE SPEED LIMIT MAY BE REDUCED LOCALLY AND THEN REVISED WHERE TRAFFIC FLOW HAS STABILISED.
 - WHEN EXISTING ROAD MARKINGS ARE TO BE REMOVED, IT MUST BE DONE BY MEANS OF SAND BLASTING OR WATER JETTING. OVERPAINTING SHALL NOT BE ALLOWED.
 - TEMPORARY ROAD MARKINGS SHALL COMPLY WITH SANS 731-2 AND MUST BE REFLECTORISED BY ADDING GLASS BEADS. TEMPORARY ROAD STUDS SHALL ALSO BE INSTALLED ON ALL TEMPORARY LONGITUDINAL LINES.
 - ROAD MARKINGS REMOVED DURING THE CONSTRUCTION MUST BE REINSTATE AFTER COMPLETION OF THE WORKS AND SHALL COMPLY WITH SANS 731-2 STANDARDS. PERMANENT ROAD STUDS SHALL BE INSTALLED.
 - WHERE A PAVED SHOULDER IS AVAILABLE AT A CLOSURE, IT IS ADVISABLE THAT QUEUING TRAFFIC BE DIVERTED INTO THE PAVED SHOULDER TO REDUCE THE RISK OF STATIONARY VEHICLES BEING HIT FROM BEHIND BY VEHICLES FAILING TO STOP. TO CREATE SOME LATERAL SPACE, INSTALL TWO ROWS OF TW402 DELINEATORS ON THE CENTER LINE.



<p>CONSTRUCTION RECORD (AS-BUILT)</p> <p>WORKS CONTRACT ENGINEER</p> <p>Name: _____</p> <p>Prof. Reg. No.: _____</p> <p>Date: _____</p>		<p>SNA CIVIL AND STRUCTURAL ENGINEERS (Pty) LTD</p> <p>11 VLOTENBURG ROAD EQUESTRIA PRETORIA 0154</p> <p>Tel: 012-842 0000 Fax: 012-803 4429 e-mail: - pta@sna.co.za</p>		<p>KOAREBANA</p> <p>11 VLOTENBURG ROAD EQUESTRIA PRETORIA 0154</p> <p>Tel: 012-842 0069 Fax: 071-254-4108 e-mail: - kva.m@kscpe.co.za</p>		<p>DESIGNED BY</p> <p>NAME: A GELDERBLUM</p> <p>Prof. Reg. No.: 2018000191</p> <p>CHECKED BY</p> <p>NAME: E CONRADIE</p> <p>Prof. Reg. No.: 20170118</p> <p>DRAWN BY</p> <p>NAME: A RAPETSOA</p>		<p>CONSULTANT APPROVAL</p> <p>Name: J W B STOLTZ</p> <p>Prof. Reg. No.: 380512</p> <p>Date: 12/05/2020</p>		<p>HEAD OFFICE</p> <p>48 Tambotie Avenue Val de Grace Pretoria 0184</p> <p>PO Box 415 Pretoria 0001 South Africa</p> <p>Tel: (012) 844 8000</p>		<p>SANRAL</p> <p>SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD</p> <p>Private Bag 17 Lynnwood Ridge 0040</p> <p>Tel: (012) 426 6200</p>		<p>NORTHERN REGION</p> <p>38 Ida Street Menlo Park Pretoria 0081</p> <p>Private Bag 17 Lynnwood Ridge 0040</p> <p>Tel: (012) 426 6200</p>		<p>ACCEPTANCE</p> <p>THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING</p> <p>for the SA NATIONAL ROADS AGENCY SOC LTD.</p> <p>Date: _____</p>		<p>PROJECT DESCRIPTION</p> <p>MSBRR : REPAIRS TO BRIDGE PARAPETS; R40 NELSPRUIT B0064 AND R33 PIET RETIEF B3297</p> <p>EMERGENCY REPAIR FOR BRIDGE B3297 ON R033/06N AT km 27.5</p> <p>REPAIR OF BRIDGE B3279 (ROUTE R33) - ACCOMMODATION OF TRAFFIC STOP-GO OPERATION</p>			<p>PROJECT NUMBER</p> <p>X.002-063-2018/1-C05</p>			<p>DRAWING LOCATION DATA</p> <p>ROUTE R033 R033</p> <p>SECTION 06N 06N</p> <p>DRAWING km DISTANCE km 27.50 km 27.50</p>			<p>BRIDGE/STRUCTURE No. B3297</p> <p>CONSULTANT DRAWING No. SNA-TP1916.2-B01</p> <p>SANRAL DOCUMENT #</p>			<p>SCALE : DIAGRAMMATIC</p> <p>SHEET 1 OF 1</p>		
<p>CONSTRUCTION RECORD (AS-BUILT)</p> <p>WORKS CONTRACT ENGINEER</p> <p>Name: _____</p> <p>Prof. Reg. No.: _____</p> <p>Date: _____</p>		<p>SNA CIVIL AND STRUCTURAL ENGINEERS (Pty) LTD</p> <p>11 VLOTENBURG ROAD EQUESTRIA PRETORIA 0154</p> <p>Tel: 012-842 0000 Fax: 012-803 4429 e-mail: - pta@sna.co.za</p>		<p>KOAREBANA</p> <p>11 VLOTENBURG ROAD EQUESTRIA PRETORIA 0154</p> <p>Tel: 012-842 0069 Fax: 071-254-4108 e-mail: - kva.m@kscpe.co.za</p>		<p>DESIGNED BY</p> <p>NAME: A GELDERBLUM</p> <p>Prof. Reg. No.: 2018000191</p> <p>CHECKED BY</p> <p>NAME: E CONRADIE</p> <p>Prof. Reg. No.: 20170118</p> <p>DRAWN BY</p> <p>NAME: A RAPETSOA</p>		<p>CONSULTANT APPROVAL</p> <p>Name: J W B STOLTZ</p> <p>Prof. Reg. No.: 380512</p> <p>Date: 12/05/2020</p>		<p>HEAD OFFICE</p> <p>48 Tambotie Avenue Val de Grace Pretoria 0184</p> <p>PO Box 415 Pretoria 0001 South Africa</p> <p>Tel: (012) 844 8000</p>		<p>SANRAL</p> <p>SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD</p> <p>Private Bag 17 Lynnwood Ridge 0040</p> <p>Tel: (012) 426 6200</p>		<p>NORTHERN REGION</p> <p>38 Ida Street Menlo Park Pretoria 0081</p> <p>Private Bag 17 Lynnwood Ridge 0040</p> <p>Tel: (012) 426 6200</p>		<p>ACCEPTANCE</p> <p>THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING</p> <p>for the SA NATIONAL ROADS AGENCY SOC LTD.</p> <p>Date: _____</p>		<p>PROJECT DESCRIPTION</p> <p>MSBRR : REPAIRS TO BRIDGE PARAPETS; R40 NELSPRUIT B0064 AND R33 PIET RETIEF B3297</p> <p>EMERGENCY REPAIR FOR BRIDGE B3297 ON R033/06N AT km 27.5</p> <p>REPAIR OF BRIDGE B3279 (ROUTE R33) - ACCOMMODATION OF TRAFFIC STOP-GO OPERATION</p>			<p>PROJECT NUMBER</p> <p>X.002-063-2018/1-C05</p>			<p>DRAWING LOCATION DATA</p> <p>ROUTE R033 R033</p> <p>SECTION 06N 06N</p> <p>DRAWING km DISTANCE km 27.50 km 27.50</p>			<p>BRIDGE/STRUCTURE No. B3297</p> <p>CONSULTANT DRAWING No. SNA-TP1916.2-B01</p> <p>SANRAL DOCUMENT #</p>			<p>SCALE : DIAGRAMMATIC</p> <p>SHEET 1 OF 1</p>		

SNA-TP1916.02-B01