

Physical Address: 48 Tambotie Avenue, Val de Grace Pretoria Po Box 415, Pretoria, 0001

Tel: +27(0)12 844 8000 Fax: +27(0)12 844 8200 Reg No: 1998/009584/30

## Bridge Management System BRIDGE Inventory Sheet

Structure No

N002\_17E\_B2171

**Structure Name** 

Eagles Nek Bridge

Locatio	n Details											
							_					
	N-Route No. :	N002		Primary Fea			ature : Ra	e: Railway				
	Section No. :	17E			Feature Name			Eagles Nek Rail				
Rou	ite Description :				F	eature Roa	d No. :					
	Route km :	4.67			ļ I	Featue Roa	d km :					
N-Rou	ite Over/Under :	Over				_	Farm :					
	Province :	Eastern Cape			Secondary I	Feature :	N/A	4				
Mag	isterial District :				Secondar	y Feature N	lame :					
C	Other Authority:	SANRAL			c	Other Bridg	e No. :					
	Orientation :	North/South				Elevatio	n (m) :					
					Direction	on of River	Flow: N/	4				
	1:50,0	000 TOPOGRA	PHICAL MAR	•	_		GIS	Coordi	nates			
	Map Name	:			La			(South	)	Longitude (East)		
	Map No.	:			Start: 32			n 28.90s	:	27d 59m 40.	10s	
	Survey System	:				32d 28r	n 29.10s	;	27d 59m 40.20s			
Structu	Total ral Features No. of Spans:	Esi Cost (Design o		:	Com	No. o	ne: 0	te · 2				
	-		NO. O	r Piers: 0								
F	acility Carried :	Road				App	roach Slab	s: Uni	known			
8	Structure Type :	Simply support	ed			Abutı	nent Gallei	y: No				
Bridg	ge Description :	Road over Rai			fcu Slabs : MPa					MPa		
Deck C	onstr. Method :	Cast insituon s	tationary fals	ework			fcu Beam	ıs :		MPa		
Para	apet Handrails :	Spoornet type	solid balustra	de (not NJ)	fci			·s :		MPa		
	No of arches :			an (m) : 0	fcu Abutments :					MPa		
			Arch Sp.	an (m) .   0								
	Thickness (m) :			fcu			fcu Arche	es :		MPa		
Crown	Thickness (m) :	0										
Deck C	ross Section	n										
Position	Туре			Material		Span Length	Deck S Profile		Avg Deck Depth (m)	Min Deck Depth (m)	Max Deck Depth (m)	
S1	Solid slab			Reinforced concrete		6.25	Straigh	t (	0.3750	0.75	0	
S1	Inverted T- beam	with infill		Precast Beam and Infill	Slab	6.25	Straigh		0.3750	0.75	0	
							Uttaigii	. 10		10.70	<u> </u>	
Bearing	gs											
Position				Туре			Fixity					
S1				Malthoid (slip membrane	(*)		Friction	-				
S1				Rubber pad			Shear	stiffness	of bearing	pads		
Expans	ion Joints											
		T				Dia P	4					
Position		Туре				Dir Movem	ent		Phot	US		

Longitudinal

Buried under surfacing

ВА



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Piers												
Position	Туре			Material		Foundation Type	I	Founding Mate	rial	H	Imax	Dmax
Abutment	ts											
Position	Туре			Material		Foundation Type	ı	Founding Mate	rial	F	Imax	Dmax
BA Solid wall Reinfor		Reinforced Concrete		Spread footings		Unknown			5.10			
Wing/Ret	ainin	g Walls										
Position	Туре			Material		Foundation Type	Founding Material			Imax	Dmax	
BA	Cantile	ver		Reinforced Concrete	)	Spread footings		Hard rock			6.50	0.00
Embankn	nent I	Protection	on									
Position	Туре				1	Material			Thickness	Slo	ре	
BA Grass or other vegetation			(	Grass		0.00	50					
Arches												
No Arches		Span Lengt	:h		Springer 1	Thickness	Crown	Thickness		FCU		
0			0		0		0.00					
Design C	harac	teristic	S						<u> </u>			
<b>J</b>												
Design Li	ve Load	d: Unknow	/n		]	Pero	c. Overl	oading :				
_	n Codes		1988)				Win	d Load :	kl	N/m2		
Temp. Rang	-				0C		Free	quency :	H	z		
Temp. F	_				0C							
Temp. G	iradient	:s :			J							
Hydraulic	Data											
					1			<b></b>				
		)ischarge : Discharge :			m3/sec m3/sec		rotection of Sco	on: N/A ur: N/A				
	_	ood Level :			III3/Sec	Design Sco				m		
50.	-	offit Level :			m ASL	Ht Above/Bel	-			m		
Cleara	nce (Fr	eeboard):	0		m	Catchn				2		
	F	Peak Year :				Angle	Betwee	en :				
	Retu	rn Period :	0		yrs Ma			Scour Depth :				
Depti	n of Des	sign Flow :			m							
Drainage												
												_, l
			ort Drainag	· _ ·	sines / :150	Immer) on dool.						
	3	uperstruct	epage Drain		oipes (< 150	illill) off deck						
		000	spage Draii	is. Geolablic								
Dimensio	ns, G	eometr	y and R	oad Clearance	es							
	Overa	II Length :	12.3	m		Vertical A	lignme	nt :				
	Over	all Width:	14.8	m		Horizontal A	lignme	nt :				
		erb Width :	13.6	m		Camber/						
		rriageway:				=	of Ske	-	degrees			
		on Trafic :	N			Ht of highest Pier/A			m			
		ad Width:	13.6	m			ning Are	ea :	m2			
·	Approa	ch Width :	13.6	m		m						

Minimum Horizontal Clearances



Date Recorded | Clearance (m) | Description

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Description

Structure No

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**Structure Name** 

Minimum Vertical Clearances

ID Date Recorded Clearance (m)

Eagles Nek Bridge

			4	2006/01/25	4.7	S1	
			4	2016/08/11	4.42		way Line to Deck
			4	2011/10/28	4.5	Single Car	rriage Way
Services							
Туре	Description	Loc	ation			Auth	ority
Road Type, Traffic Volumes	s and Surfacing	•					
, , , , , , , , , , , , , , , , , , ,							
	Road Over				Road		
Class of Road :	2- Major route(Freeways and Highways	.)			lot applica	able	
No. of Carriageways :	1	,		─	.о. аррио		
Names of Carriageways :							
No./Dimensions of Lanes (m) :				-+			
No./Dimensions of Shoulders (m) :							
No./Dimensions of Sidewalks (m) :							
Average Daily Traffic :							
Year ADT Recorded :							
Truck Factor (%) :							
Detour Length (km) :							
Minimum Class of Detour :	2- Major route(Freeways and Highways	.)			lot applica	able	
Surface Slab :	Asphalt	,					
Surface Approach :	•						
	i septiment						
Analidas Datalla							
Project No. :	Correspondence F	ile :				Strip	Мар :
Project No. :	Correspondence F	ile :		Loca	ation	Strip	Map :
Project No. :	Correspondence F	ile :			ation	Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title		ile :				Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title		ile :				Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title		ile :				Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a		ile :				Strip	
Project No. :  Drawing No. Title  Microfilm No. Title  Maintenance Agreements a  Responsibilities :		ile :				Strip	
Project No. :  Drawing No. Title  Microfilm No. Title  Maintenance Agreements a  Responsibilities : Agreement No. :		ile :				Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs :		ile :				Strip	
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs :		ile :				Strip	
Project No. :  Drawing No. Title  Microfilm No. Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs : Agreement Location :	and Responsibilities	ntractor				Strip	Туре
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs : Agreement Location :  Maintenance History	nd Responsibilities  Design Engineer Con						Туре
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs : Agreement Location :  Maintenance History  Details	Design Engineer Con					Completion Da	te Cost
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs : Agreement Location :  Maintenance History  Details  Widening, Strengthening, F	Design Engineer Col	ntractor					te Cost
Project No. :  Drawing No.  Title  Microfilm No.  Title  Maintenance Agreements a  Responsibilities : Agreement No. : Share of Costs : Agreement Location :  Maintenance History  Details  Widening, Strengthening, F  Details	Design Engineer Col	ntractor				Completion Da	te Cost

Report Date: 11 Mar 2024 08:32:26



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Access Factors :					
Piers :	Easy access - binoculars adequate		Deck Soffit :	Easy Access or binoculars	
Bearings :	Easy access/6 m ladder required		Abutment Gallery :	No galleries	
Box Girder :	No Box		Traffic Volume :	Medium	
Effective Bridge Area :	182	m2			
ailability of Drawings :	No drawings				

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