 General Directorate of Mobility and Roads	<b>Bridge inspection report</b>	<b>Main inspection</b>		<b>RC</b> <sup>®</sup>
		<b>N°: 3</b>	<b>Date: 20.04.2021</b>	
<b>Bridge over the Venoge - Les Roseaux</b>			<b>NO.: 001P2303</b>	

Maintenance :	2100	km Maintenance axis :			8.141				
Starting point	800	U [m]	118.0	V [m]	0.0	W [m]	0.0	km	0.008
Fine reference point	800	U [m]	128.5	V [m]	0.0	W [m]	0.0	km	0.008
Coordinates E/N :	2'531'175 / 1'151'771			Altitude [m]	382.00				
Municipality :	Ecublens (VD)			Region	CENTER				
Type of work :	Arch construction			Weather conditions:	slightly cloudy 12.0 °C				
Owner :	Vaud			Next inspection:	20.04.2026				
Resp. management :	Vaud			RC N° :	1				
Office :	2M - Engineers			Date :	Visa :				
Inspector:	C. Kunz P. Müller								



<b>Info. Additional :</b>	
Total length:	36.80 m
Total width:	17.50 m
Total surface area:	644.00 m <sup>2</sup>
Usable roadway width :	7.80 m
Historic monument :	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Waterproofing of bearing slab :	
<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no

Year of construction: 1924	Intervention:
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Condition assessment					Recommendation		2026
Structural elements :	2	Pedestal			Recommended action :	Maintenance (routine upkeep)	
	2	Left arch			Estimated costs:	19.0 kfr.	
	2	Right-hand arch					
Equipment items :					Recommended action :	Maintenance (routine upkeep)	
					Estimated costs:	10.0 kfr.	
Overall score :	1	2	3	4	5	Costs are. total:	29.0 kfr.
Complementary inspection :						Safety measures :	
Controlled by :						Options :	

Date:

Signature :



General Directorate of  
Mobility and Roads

### Bridge inspection report

Main inspection

RC

N°: 3

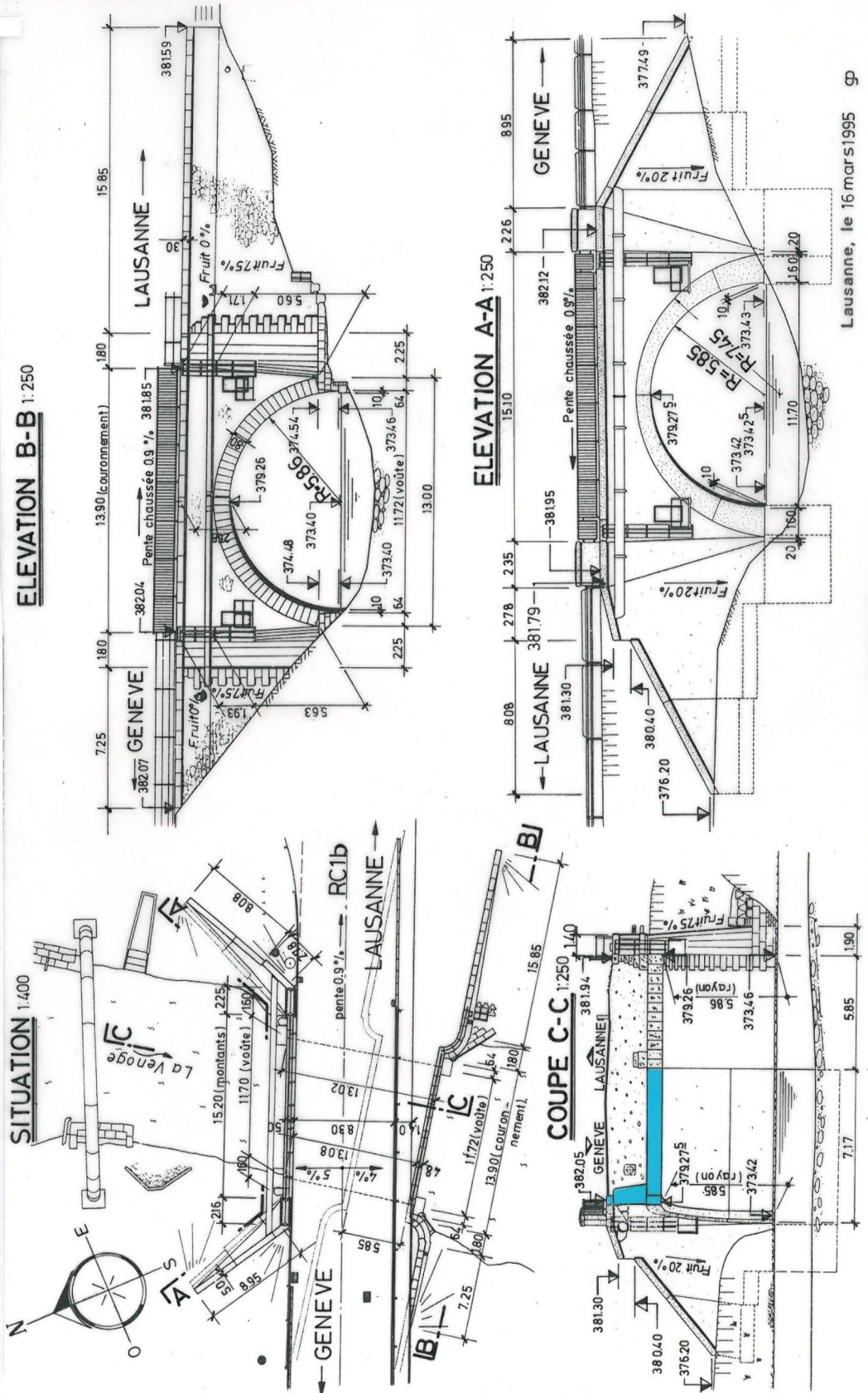
Date: 20.04.2021

## Bridge over the Venoge - Les Roseaux

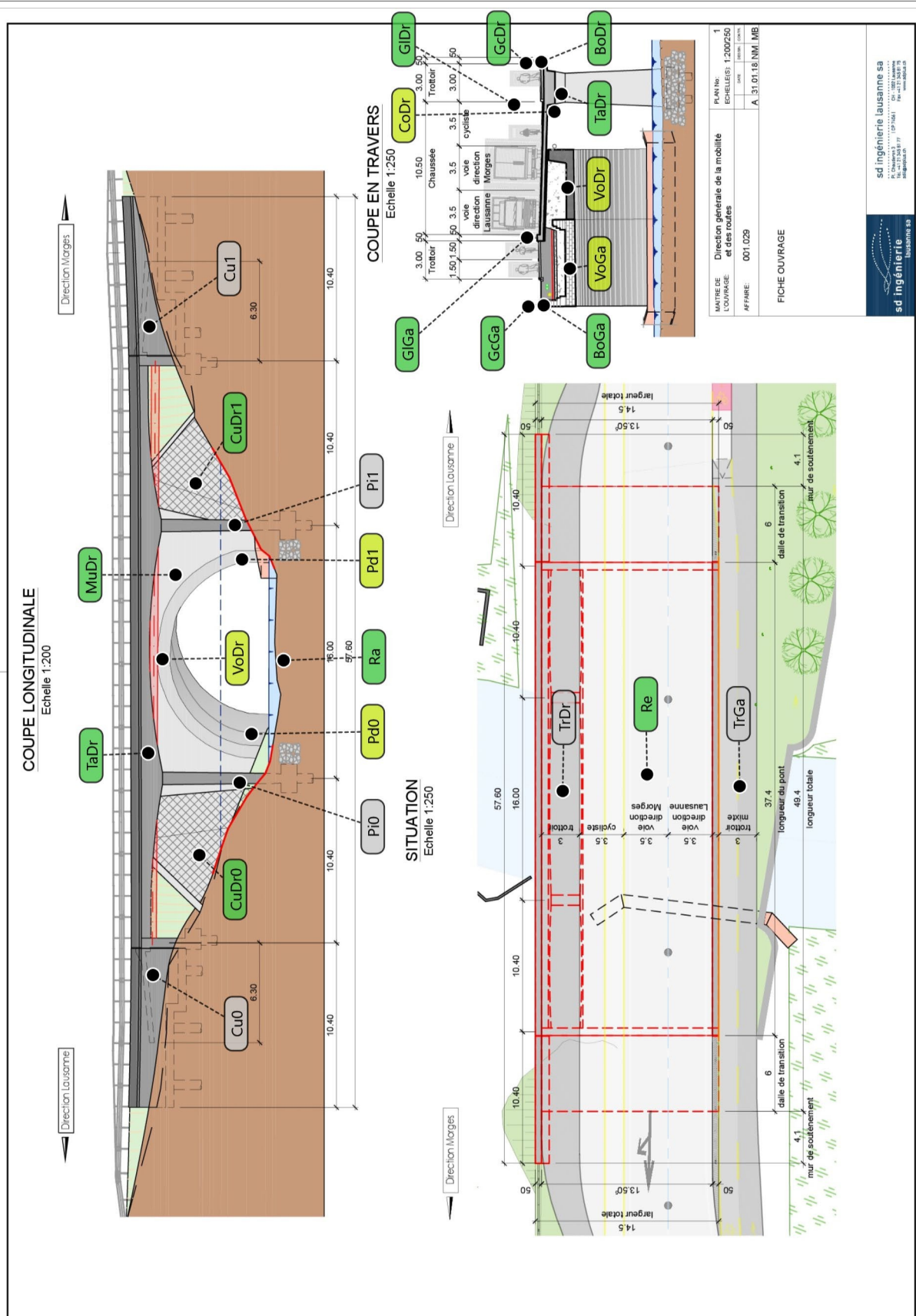
NO.: 001P2303

Sketch : 001P2303 - ORIGINAL AVANT TAVAUX

N° KUBA 001P2303	N° RC 1	Désignation de l'ouvrage Pont sur la Venoge - Les Roseaux	Commune(s) Saint-Sulpice (Vaud), Préverenges, Denges, Ecublens (Vaud)	Axe Strada 2100	Coordonnées Y / X 531175 / 151770
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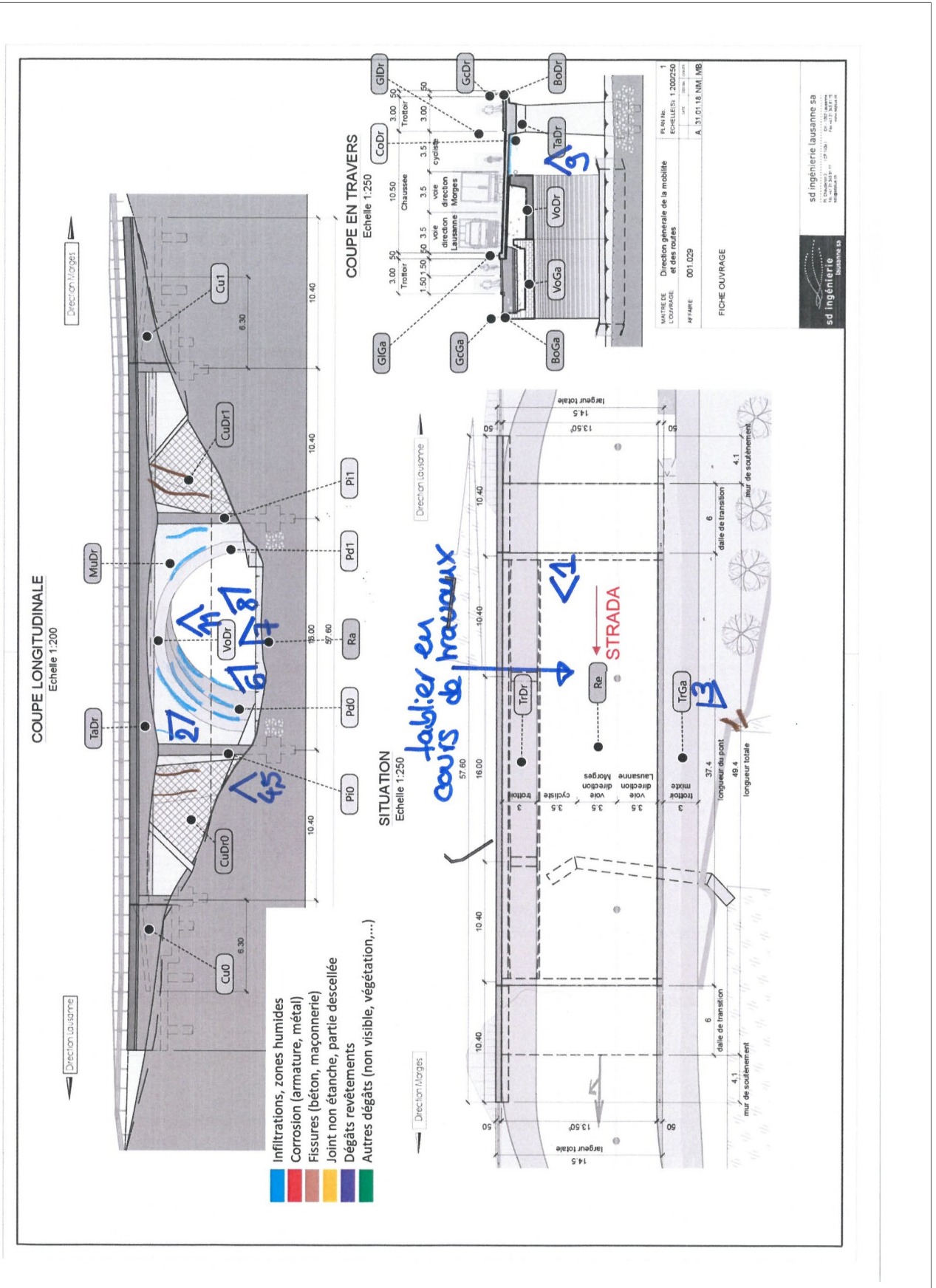


Sketch: 001P2303\_ELEMENTS





**Inspection sketch: 001P2303\_I2021\_CONSTATATIONS**



**Photo table - Overview**



**Photo table - Overview**

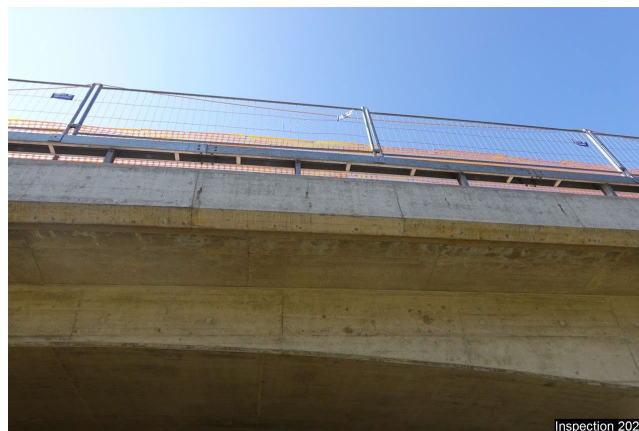


**Table of photos - Findings**



Re Coating  
\ other findings  
On entire deck. Coating not yet installed at time of inspection.

Photo N°: 1 / 11



BoDr Right Edge  
1216 other cracks  
Scattered along the entire edge. Shrinkage crack.

Photo N°: 2 / 11



BoGa Left Edge  
1216 other cracks  
On the head of the old border. Various cracks and chips.

Photo N°: 3 / 11



CuDr0 Right wing wall axis 0  
1209 Joint cracks  
Vertical joint. Crack in plaster mortar.

Photo N°: 4 / 11



CuDr1 Right wing wall axis 1  
1209 Joint cracks  
Vertical joint. Crack in plaster mortar.

Photo N°: 5 / 11



MuDr Tympanum right side  
301 Wetlands  
In various places. Old traces.

Photo N°: 6 / 11

**Table of photos - Findings**



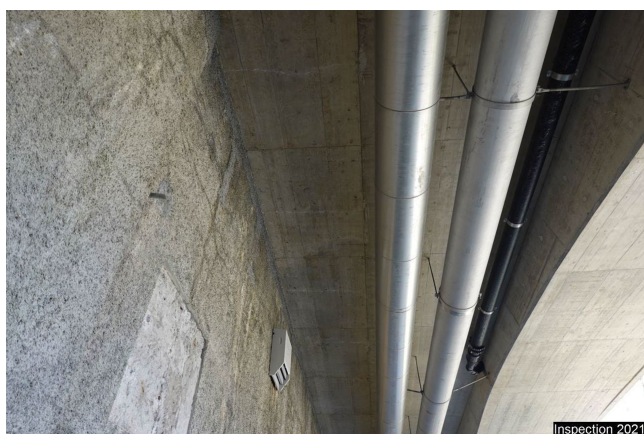
**Pd0 Pedestal**  
1210 Longitudinal cracks  
Internal face. Slight cracking of the visible surface with old limestone.

Photo N°: 7 / 11



**Pd1 Pedestal**  
301 Wetlands  
Internal face. Slight cracking of the visible surface with old limestone.

Photo N°: 8 / 11



**TaDr Apron Right**  
1216 other cracks  
Intrados. Shrinkage cracks with calcareous occurrences.

Photo N°: 9 / 11



**VoDr Voûte Droite**  
301 Wetlands  
Distributed over the entire element. Slight surface cracking visible with old calcareous deposits.

Photo N°: 10 / 11



**VoGa Voûte Gauche**  
301 Wetlands  
Distributed over the entire inner surface. Ancient limestone sources.


Photo N°: 11 / 11

**Structural element**

<i>Description and abbreviation :</i>		<i>N° KUBA :</i>	<i>Risk class</i>	<i>Qualif.:</i>	<i>Description:</i>	<i>Photo gallery:</i>	<i>Condition class :</i>
Right border	BoDr	1216	I	B	Shrinkage crack.	2	1
Right wing wall axis 0	CuDr0	1209	II	B	Crack in plaster mortar.	4	1
Right-side tympanum	MuDr	301	II	B	Old traces.	6	1
Apron Right	TaDr	1216	II	B	Shrinkage cracks with calcareous occurrences.	9	1
Left border	BoGa	1216	I	B	Various cracks and chips.	3	1
Coating	Re	\	I	A	Sheathing not yet installed at time of inspection.	1	1
Right wing wall axis 1	CuDr1	1209	II	B	Crack in plaster mortar.	5	1
Pedestal	Pd0	1210	III	B	Slight cracking of the visible surface with old limestone deposits.	7	2
Left arch	VoGa	301	III	B	Ancient limestone showings.	11	2
Right-hand arch	VoDr	301	III	B	Slight cracking of the visible surface with old limestone deposits.	10	2
Pedestal	Pd1	301	III	B	Slight cracking of the visible surface with old limestone deposits.	8	2

**Equipment item**

<i>Description and abbreviation :</i>		<i>N° KUBA :</i>	<i>Risk class</i>	<i>Qualif.:</i>	<i>Description:</i>	<i>Photo gallery:</i>	<i>Condition class :</i>
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	General Directorate of Mobility and Roads	<b>Bridge inspection          report</b>	<b>Main inspection</b>		<b>RC</b> <sup>6</sup>
			<b>N°: 3</b>	<b>Date: 20.04.2021</b>	
			<b>Bridge over the Venoge - Les Roseaux</b>		

### Conclusions:

The structure is in acceptable condition.

Serviceability: Serviceability is guaranteed.

Degree of urgency: No rush.

Structural safety: Structural safety is guaranteed.

Degree of urgency: No rush.

### Comments (description) :

The structure is being refurbished during the 2021 inspection. Widening is underway with a new concrete deck.

Recommended work: maintenance/routine upkeep

Estimated structural costs according to "RRVD 2020 OA, costs of structures":  $644 \text{ m}^2 * 2'250 \text{ CHF/m}^2 * 0.02 = 29 \text{ KCHF}$

(Structure area = 644 m<sup>2</sup> / Masonry-concrete structure / Restoration cost per m<sup>2</sup> = 2'250 CHF / Overall score 2 / Red curve / Degradation rate = 0.02)

Degree of urgency No rush.

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