

BRIDGE GROUP

Structure Inventory and Appraisal

Structure Number : 10839    Structure Name : Bloody Tanks Wash Bridge    Feature Under : Bloody Tanks Wash  
 Route :    MP :    Road Name : Schulze Ranch Rd    Agency: Gila Co    Location : 150 ft S Jct US 60

LOCATION INFORMATION		DIMENSIONS		PROPOSED IMPROVEMENTS	
N1-State Code :	049	N32:Appr Rdwy Width (feet):	14	N75-Type of Work:	31 1
N2-State Hwy District :	Southeast	N48-Max Span Length (feet):	32	N76-Length of Str Imp (feet):	59
N3-County Code :	Gila	N49-Structure Length (feet):	34	N94-Br Improv Cost (x1000):	\$49
N4-Place Code :	Unknown	N50a-L1 Curb/Swlk Width (feet):	0.0	N95-Rdwy Improv Cost (x1000):	\$145
N16-Latitude:	33 Deg 22 Min 29.50 Sec	N50b-Rt Curb/Swlk Width (feet):	0.0	N96-Total Project Cost (x1000):	\$712
N17-Longitude :	110 Deg 54 Min 52.20 Sec	N51-Br Width Curb-Curb (feet):	14.0	N97-Year of Cost Estimate:	2020
N98-Border St Code - % Resp:		N52-Deck Width Out-Out (feet):	14.0	<b>CONSTRUCTION PROJECT DATA</b>	
N99-Border Bridge Number:		N112-NBIS Br Length?	Y	N27-Year Built:	1950
INVENTORY ROUTE DATA		VERTICAL & HORIZONTAL CLEARANCE		N106-Year of Reconstruction:	
N19-Detour Length (miles):	99	N53-Min Vert Over Clr (feet):	99.99	A204-Orig Project Number:	0
N20-Toll:	3	N54-Min Vert Under Clr (feet):	N 0.00	A205-Orig Project Station:	
ROADWAY RECORD    ON    UNDER		N55-Min Lat Under Clr Rt (feet):	N 0.0	A223-TRACS Number:	
N5-Inv Rte:	1 4 0 00000 0   -	N56-Min Lat Under Clr Lt (feet):	0.0	A225-Deck Area (sq. feet):	476
N28-Lanes:	1    0	SERVICE, TYPE, and SPAN INFORMATION		INSPECTION	
N10-Inv Rte Min Vert Clr (feet):	99.99	N42-Service Type:	1 5	N90-Inspection Date:	05/29/2020
N11-Inv Rte Milepoint:	0.00	N43-Str Type, Main:	3 2	N91-Insp Freq (months):	24
N26-Functional Class:	09	N44-Str Type, Appr:	0 0	A207-Inspection Quarter:	2
N29-Avg Daily Traffic:	20	N45-Number of Main Spans:	1	Inspection Type:	In-Depth
N30-Year of ADT:	2018	N46-Number of Appr Spans:	0	A228-Next Insp Date:	May 2022
N47-Inv Rte Tot Horiz Clr (feet):	14.0	CONDITION RATINGS		CRITICAL FEATURES	
N100-Defense Hwy:	0	N58-Deck:	7	N92A-Fracture Critical:	N
N101-Parallel Bridge:	N	N59-Superstructure:	6	N92B-Underwater Insp:	N
N102-Direction of Traffic:	3	N60-Substructure:	5	N92C-Special Insp:	N
N104-Hwy System:	0	N61-Channel:	6	N93A-Date Fract Crit Insp:	
N109-Percent Truck Traffic:	1	N62-Culvert:	N	N93B-Date Underwater Insp:	
N110-National Truck Network:	0	APPRAISAL RATINGS		N93C-Date Spec Insp:	
N114-Future ADT:	30	N67-Struct Evaluation:	2	A234-Steel In-Depth Insp Freq(months):	48
N115-Year of Future ADT:	2038	N68-Deck Geometry:	5	CULVERT INFORMATION	
A200-Is N5 the Princ. Rte?	Y	N69-Underclearance Rtg:	N	A217-Culv Barrel Height(feet):	0
RESPONSIBILITY		N71-Waterway Adequacy:	7	A218-Culv Length (feet):	0
N21-Maint Responsibility:	02	N72-Appr Rdw Align:	6	A219-Culv Fill Height (feet):	0
N22-Bridge Owner:	02	N36-Traffic Safety Features:	0 0 0 0	BRIDGE RAILING	
A229-Agency:	Gila Co	BRIDGE SCOUR DATA		A206a,b,c-	
		N113-Scour Critical Rtg:	5	Bridge Rail Type,	600
		A202-Foundation Type:	00	Geometric Conform, and	
		A220-Found Embed (feet):	0	Structural Conform:	
		A221-Scour Countermeasure:	000	SUFFICIENCY RATING	
		LOAD, RATE, and POST		Sufficiency Rating:	25.70
		N31-Design Loading:	5	BRIDGE CONDITION	
		N41-Open, Post, Close:	P	Bridge Condition:	Fair
		N63-Method Used for Oper. Rtg:	1	A300 - GENERAL COMMENTS	
		N64-Operating Load Rtg/Factor:	12	A300: Schulze Ranch Rd is located near MP 240.9 of US 60.	
		N65-Method Used for Inv. Rtg:	1		
		N66-Inventory Load Rtg/Factor:	7		
		N70-Bridge Posting:	0		
		N103-Temp Str Designation:			
		A211-Posted Limit (Tons):	7		
		A222-Date of Load Rtg:	09/28/2012		
		A233-Posted Vert Clr NB/EB (ft-in):	0-0		
		A233-Posted Vert Clr SB/WB (ft-in):	0-0		
GENERAL DATA					
N33-Bridge Median:	0				
N34-Skew:	30				
N35-Structure Flared:	0				
N37-Historical Significance:	5				
N107-Deck Str Type:	1				
N108-Wear Surf Prot System:	1 0 0				
A201-Wear Surf Thickness (inches)					

**BRIDGE GROUP**

**Bridge Repair Report**

Structure Number :	10839	Structure Name :	Bloody Tanks Wash Bridge	Inspected by :	Stantec-Cressman/Woodburn
Route :	0	Road Name :	Schultze Ranch Rd	Inspection Type:	In-Depth
MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	May 2022

<b>Work Candidate ID:</b>	508C6CE-6D3D-061920-62A9A752FD	<b>A216 - Actual Completion Cost</b>	\$ <input type="text"/>
<b>Action:</b>	1071 Substructure-Rehab	<b>A215 - Completion Date:</b>	<input type="text"/>
<b>Estimated Quantity:</b>			
<b>Estimated Cost:</b>	\$0.00		
<b>A212 - Repair Priority:</b>	2-Priority over routine		
<b>Repair settlement affecting east half of Abutment 2 (Photos J, K, and L).</b>			

BRIDGE GROUP

Bridge Maintenance Report

Structure Number : 10839	Structure Name : Bloody Tanks Wash Bridge	Inspected by : Stantec-Cressman/Woodburn
Route : 0	Road Name : Schultze Ranch Rd	Inspection Type: In-Depth
MP : 0	Agency : Gila Co	Inspection Date : Friday, May 29, 2020
ADOT District: Southeast		Next Insp. Due By : May 2022

<b>Work Candidate ID:</b> 508C6CE-6D3D-061920-6CA4739510	<b>A216 - Actual Completion Cost</b>	\$ <input type="text"/>
<b>Action:</b> 1053 Misc-Install Sign	<b>A215 - Completion Date:</b>	<input type="text"/>
<b>Estimated Quantity:</b>		
<b>Estimated Cost:</b> \$0.00		
<b>A212 - Repair Priority:</b> 3-Can be scheduled		
Install "One Lane Bridge" signs at both approaches.		

<b>Work Candidate ID:</b> 508C6CE-2037-052318-DDDBD97DEA	<b>A216 - Actual Completion Cost</b>	\$ <input type="text"/>
<b>Action:</b> 1056 Misc-Remove Vegetation	<b>A215 - Completion Date:</b>	<input type="text"/>
<b>Estimated Quantity:</b>		
<b>Estimated Cost:</b> \$0.00		
<b>A212 - Repair Priority:</b> 3-Can be scheduled		
Remove vegetation growing over bridge and covering object markers and load posting signs (Photos A, E, and F).		



## BRIDGE GROUP

## Inspection Report

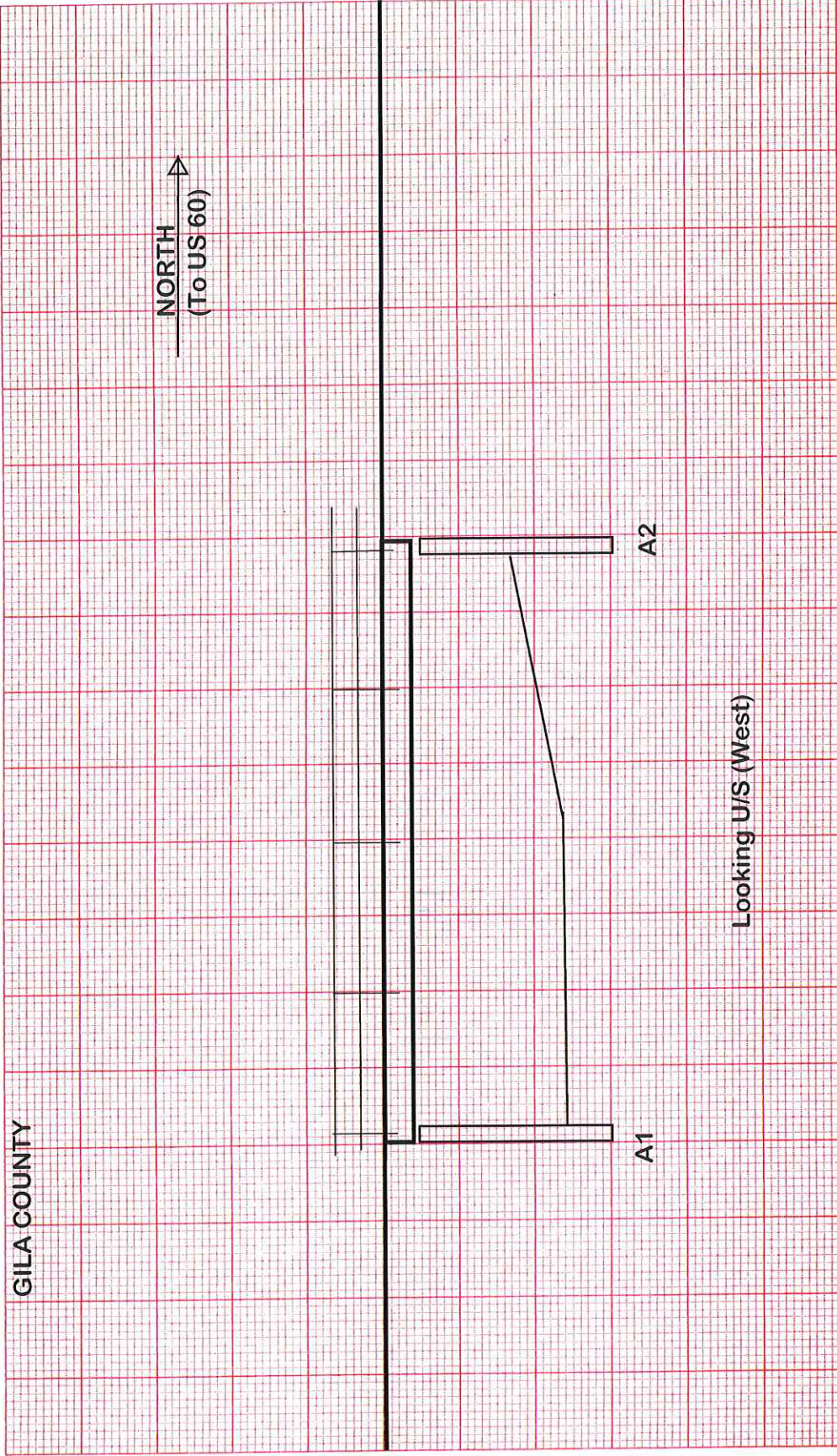
Structure No. : 10839    Structure Name : Bloody Tanks Wash Bridge    Inspected by : Stantec-Cressman/Woodburn  
 Route :                    Road Name : Schultze Ranch Rd                    Inspection Type: In-Depth  
 MP :                        Agency : Gila Co                                    Inspection Date : Friday, May 29, 2020  
 ADOT District: Southeast                                    Next Insp. Due By : May 2022

Element No.	Element Description	Quantity	Units	Env.	Condition State			
					1	2	3	4
12	Re Concrete Deck	476.00	sq.ft	2.00	270	206	0	0
Reinforced concrete deck. No wearing surface in place.								
1080	Delamination/Spall/Patched Area	28.00	sq.ft	2.00	0	28	0	0
1. North and south top edges of the deck exhibit small corner spalls.								
1130	Cracking (RC and Other)	40.00	sq.ft	2.00	0	40	0	0
1. Top of deck and soffit exhibit hairline to moderate sized transverse, longitudinal, and random cracks (Photo G).								
1190	Abrasion(PSC/RC)	136.00	sq.ft	2.00	0	136	0	0
1. Top of deck exhibits light wear in wheel lines.								
107	Steel Opn Girder/Beam	170.00	ft	2.00	136	34	0	0
Girders 1 to 4: (4) weathering steel WF I-beam girders (7-3/4" flange, 11" web, 3/8" thick). Girder 5: (1) weathering steel WF I-beam girder (5-3/5" flange, 9'-3/8" web, 3/8" thick)								
1. Girder 1 exhibits (2) welded butt splices, at 1/4 and 3/4 spans, with (4 total) 6" H x 24" L steel plates welded to both sides of web at each splice.								
a. Fatigue prone detail: Welds between splice plates and Girder 1 web, especially vertical welds, since they are welded against the load path.								
515	Steel Protective Coating	170.00	sq.ft	2.00	170	0	0	0
Weathering steel.								
1. Patina forming as intended.								
1900	Distortion	34.00	ft	2.00	0	34	0	0
1. Girder 5 exhibits minor negative camber for full length.								
215	Re Conc Abutment	72.00	ft	2.00	0	54	18	0
Reinforced concrete walls.								
1. Abutments appear to have been widened. (2) different types of concrete make up each abutment.								
2. East half of Abutment 1 and west half of Abutment 2 have steel plates with a single bolt. Appears to be some sort of tie back system.								
3. Reinforced concrete wingwalls at all (4) corners.								
a. Wingwalls have minor hairline to moderate sized cracks and light stream abrasion.								
4. Concrete closure pours between girders, at both abutments.								
a. Small spall and associated delamination adjacent to Girder 1, at Abutment 2.								
1080	Delamination/Spall/Patched Area	36.00	ft	2.00	0	36	0	0
1. Both abutments exhibit honeycombing throughout (Photo H).								
(Full quantity of CS2=72 not represented in condition states to eliminate double counting).								
1190	Abrasion(PSC/RC)	18.00	ft	2.00	0	18	0	0
1. West half of Abutment 1 and east half of Abutment 2 exhibit light stream abrasion.								
(Full quantity of CS2=36 not represented in condition states to eliminate double counting).								
4000	Settlement	18.00	ft	2.00	0	0	18	0
1. East half of Abutment 1 has settled and is pushing towards channel up to 7" at top (See Repair Report and Photos J and K).								
a. Settlement has caused the (2) halves of Abutment 2 to separate, up to 1", at construction joint at centerline (Photo L).								
NOTE: Due to settlement of Abutment 2, N60 was lowered from 6 to 5.								
330	Metal Bridge Railing	68.00	ft	2.00	58	10	0	0
38" high rail consisting of (2) aluminum I-beam rails on 2" diameter steel tube posts. Rails are inadequate for vehicular traffic.								
1. Aluminum rails exhibit no significant defects.								
1000	Corrosion	10.00	ft	2.00	0	10	0	0
1. Posts exhibit surface corrosion.								



# Channel Profile Diagram

Name of Structure: Bloody Tanks Wash  
 Structure No. 10839  
 Location: Route Schulze Ranch Rd. MP 0.0



Insp. No.	Insp. date	Inspection's Initial	Channel Profile Location (U/S or D/S)	Depth at face or at Support 'P' (RHS)	Depth at quarter span	Depth at mid span	Depth at quarter span	Depth at the Right side of Support 'P'	Depth at the left side of Support 'P'	Depth at quarter span	Depth at mid span	Depth at quarter span	Depth at 3/4 span	Depth at face or at Support 'P' (LHS)
8	5/29/20	DC/CW	D/S	4.33'	6.74'	5.99'	5.89'							6.50'

† 64-4505 R07/06 Note: Channel depths will be measured from the bottom of the girder or the slab; For short span (<40'), depths at quarter & three-quarter lengths may not be necessary; Local scour, if observed at locations other than above, will be noted on this sheet with inspection date; RHS-->Right Hand Side; LHS--> Left Hand Side.



### BRIDGE GROUP

#### Bridge Inspection Photographs

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Structure Number :	10839	Structure Name :	Bloody Tanks Wash Bridge	Inspected by :	Stantec-Cressman/Woodburn
Route :	0	Road Name :	Schultze Ranch Rd	Inspection Type :	In-Depth
MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District :	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-a.JPG

Description : Roadway ID looking north



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File Name : 10839-2020-05-29-Photo-b.JPG  
Description : Elevation ID looking east



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File Name : 10839-2020-05-29-Photo-c.JPG

Description : Typical deck condition

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File Name : 10839-2020-05-29-Photo-d.JPG

Description : Deck underside



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Bridge Inspection Photographs

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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
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File Name : 10839-2020-05-29-Photo-e.JPG

Description : Load posting sign at south approach



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Bridge Inspection Photographs

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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-f.JPG  
Description : Load posting sign at north approach



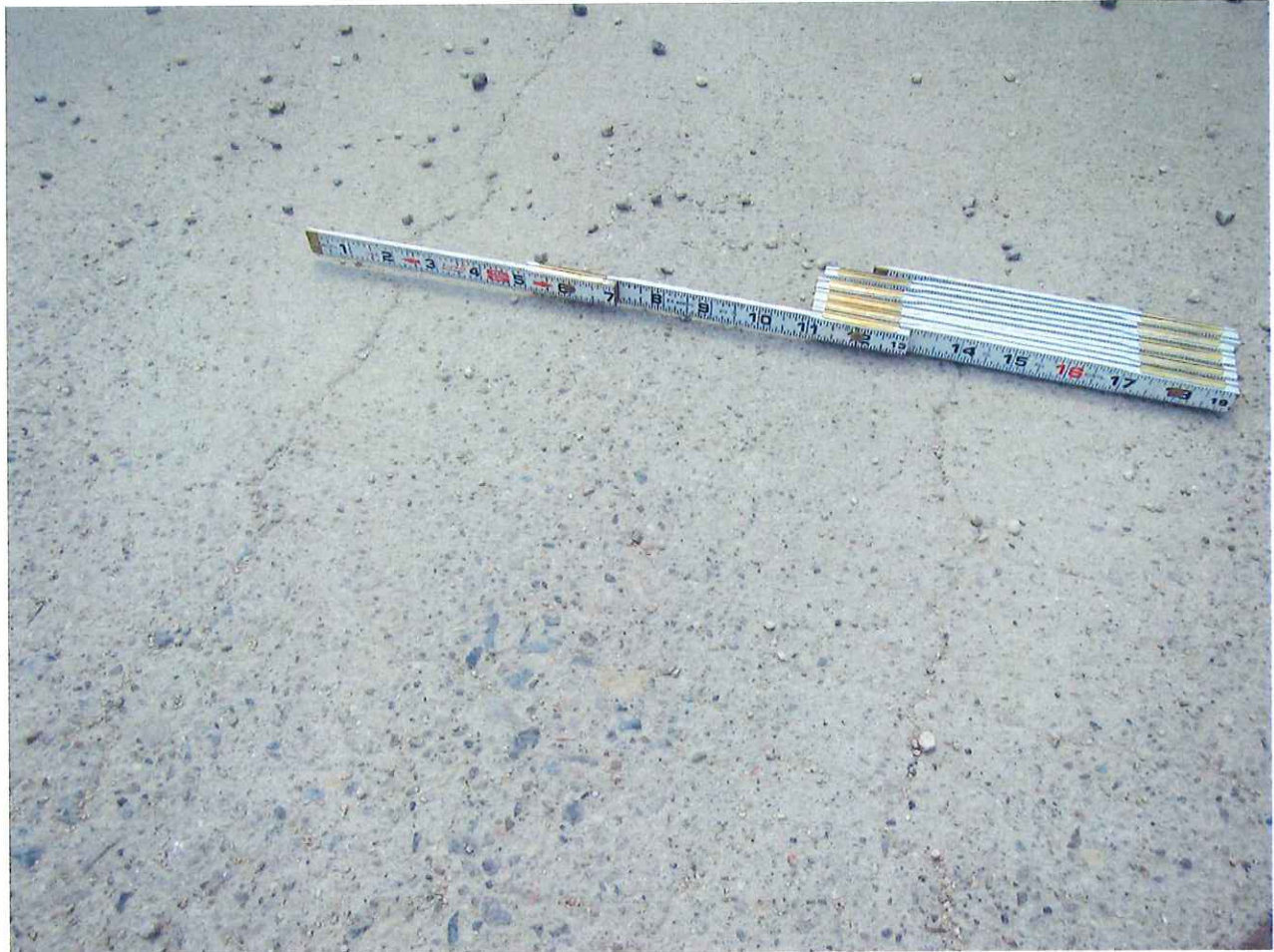
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Bridge Inspection Photographs

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Route :	0	Road Name :	Schultze Ranch Rd	Inspection Type:	In-Depth
MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-g.JPG

Description : Transverse cracks in deck

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Bridge Inspection Photographs

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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-h.JPG

Description : Honeycombing in Abutment 1



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Bridge Inspection Photographs

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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-i.JPG

Description : Stream abrasion in Abutment 1

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Bridge Inspection Photographs

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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-j.JPG

Description : East half of Abutment 2 leaning at top, overview



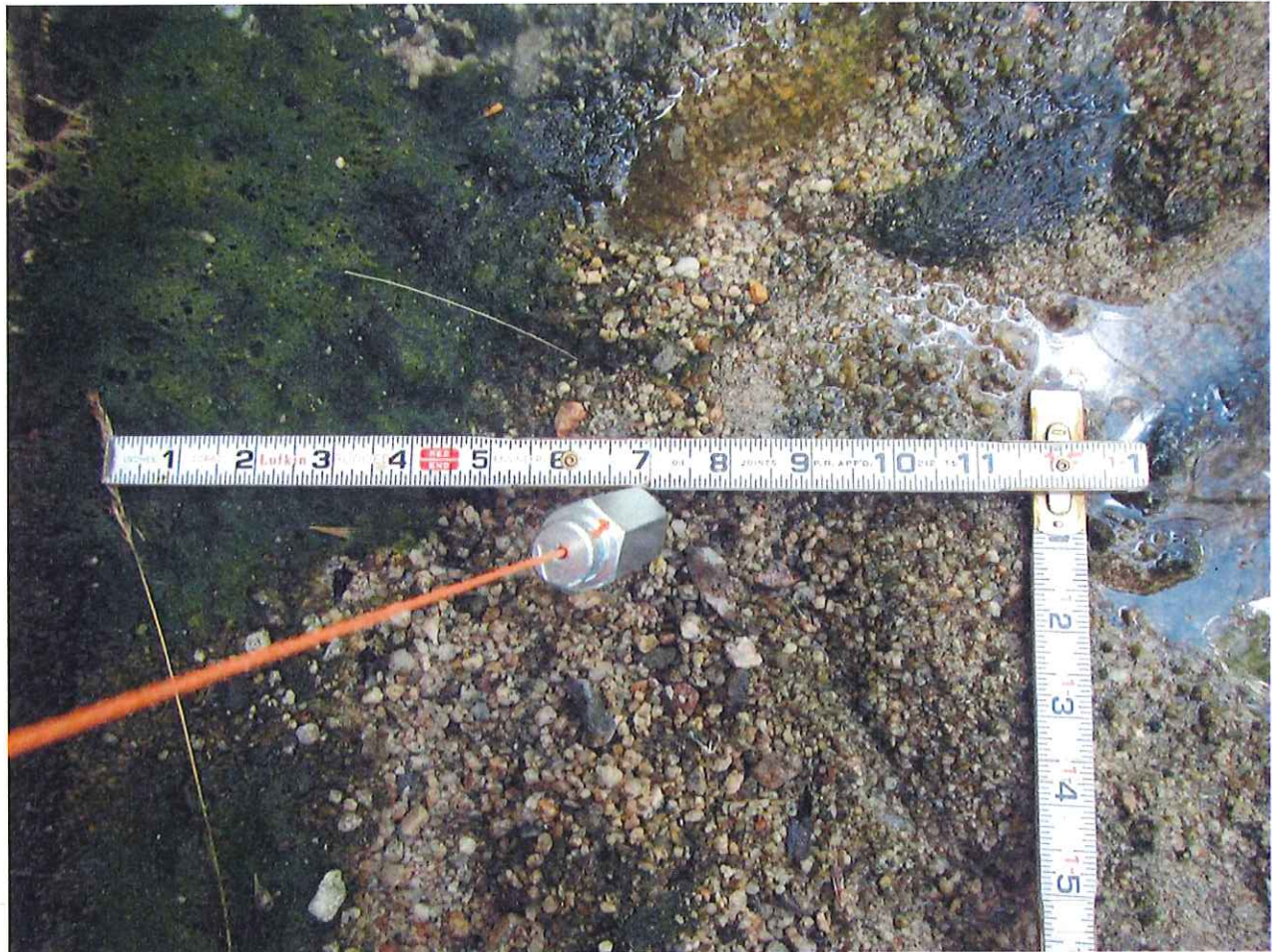
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Bridge Inspection Photographs

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Structure Number :	10839	Structure Name :	Bloody Tanks Wash Bridge	Inspected by :	Stantec-Cressman/Woodburn
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MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-k.JPG

Description : East half of Abutment 2 leaning at top, close up



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Bridge Inspection Photographs

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Route :	0	Road Name :	Schultze Ranch Rd	Inspection Type:	In-Depth
MP :	0	Agency :	Gila Co	Inspection Date :	Friday, May 29, 2020
ADOT District:	Southeast			Next Insp. Due By :	05/29/2022

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File Name : 10839-2020-05-29-Photo-1.JPG

Description : View showing no change in gap at construction joint in Abutment 2