HistoricBridges.org - National Bridge Inventory Data Sheet

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Basic Information							40-31-29 =	074-14-51 = -
New York [36]	Richmond County [085	5]	New York [51000]	ARTHUR KILL			40-51-29 = 40.524722	74.247500
5523069	Highway agency	district #Num!	Owner Local Toll Autho	rity [32]	Maintenance	responsibility	Local Toll Authorit	y [32]
Route 440	RTE 44	10	Toll Toll br	idge [1]	Features intersec	ted ARTHUR KI	LL	
Design - Steel [3] main Truss - Thru [10]	Design - approach Other	[00]	Kilometerpoint 3Year built 1928Skew angle 0Historical significance	Structure FI		enot determinable at t	his time. [4]
Total length 640 m = 20	099.8 ft Lenç	yth of maximum spa	an 114.3 m = 375.0 ft	Deck width, out-to-				curb 12.1 m = 39.7 ft
Inventory Route, Total Ho	orizontal Clearance	6 m = 19.7 ft	Curb or sidewalk wi	dth - left 1.6 m = !	5.2 ft	Curb or side	walk width - right	1.6 m = 5.2 ft
Deck structure type	Со	ncrete Cast-in-Plac	ce [1]					
Type of wearing surface	Biti	uminous [6]						
Deck protection								
Type of membrane/weari	ing surface							
Weight Limits								
Bypass, detour length	Method to determin	ne inventory rating	No rating analysis pe	erformed [5]	nventory rating	29.3 metric ton =	= 32.2 tons	
4.6 km = 2.9 mi	Method to determin	ne operating rating	No rating analysis pe	erformed [5]	perating rating	99.9 metric ton =	= 109.9 tons	
	Bridge posting E	Equal to or above le	egal loads [5]		esign Load MS	18+Mod / HS 20-	+Mod [6]	

Functional Details	
Average Daily Traffic 81600 Average daily tr	ruck traffi 6 % Year 2010 Future average daily traffic 114240 Year 2030
Road classification	ays or Exp Lanes on structure 4 Approach roadway width 15.2 m = 49.9 ft
Type of service on bridge Highway [1]	Direction of traffic 2 - way traffic [2] Bridge median (no barriers) [2]
Parallel structure designation No parallel structure	e exists. [N]
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control Navigation control on waterway (bridge permit required). [1]
Navigation vertical clearanc 41.1 m = 134.8 ft	Navigation horizontal clearance 205.7 m = 674.9 ft
Minimum navigation vertical clearance, vertical lift bri	dge Minimum vertical clearance over bridge roadway 5.91 m = 19.4 ft
Minimum lateral underclearance reference feature F	eature not a highway or railroad [N]
Minimum lateral underclearance on right 99.9 = Unlin	mited Minimum lateral underclearance on left 0 = N/A
Minimum Vertical Underclearance 0 = N/A	Minimum vertical underclearance reference feature Feature not a highway or railroad [N]
Appraisal ratings - underclearances N/A [N]	
Danair and Danlagement Dlang	
Repair and Replacement Plans	West days by West to be days by contract [6]
Type of work to be performed	Work done by Work to be done by contract [1]
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost 59398000 Roadway improvement cost 34783000
0. 10p.200	Length of structure improvement 640 m = 2099.8 ft Total project cost 94181000
	Year of improvement cost estimate 2011
	Border bridge - state Unknown [342] Border bridge - percent responsibility of other state
	Border bridge - structure number 0

Inspection and Suffic	ciency								
Structure status C	Open, no rest	riction [A]	· ·	ppraisal ratings - ructural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]				
Condition ratings - su	perstructur	Fair [5]		Appraisal ratings - roadway alignment		Equal to present minimum criteria [6]			
Condition ratings - sul	ıbstructure	Satisfactory [6]		Appraisal ratings -					
Condition ratings - dec	ondition ratings - deck Satisfactory [6]			leck geometry					
Scour		Bridge foundation	ns determined to	be stable for assesse	ed or calculate	d scour condition. [5]			
Channel and channel protection Bank protection is in need Banks and/or channel have					rol devices an	d embankment protect	ion have a little minor damag	Je.	
Appraisal ratings - water adequacy Somewhat better than minim in place as is [5]				dequacy to tolerate b	peing left	Status evaluation F	Functionally obsolete [2]		
Pier or abutment prote	ection	In place and fur	ctioning [2]			Sufficiency rating 4	47.2		
Culverts Not applicable. Used if structure is not a culvert. [N]									
Traffic safety features	es - railings		Inpected feature r	ature meets currently acceptable standards. [1]					
Traffic safety features	es - transitions		Inpected feature r	ted feature meets currently acceptable standards. [1]					
Traffic safety features - approach guardrail									
Traffic safety features	es - approach	guardrail ends	Inpected feature r	meets currently acce	ptable standa	rds. [1]			
Inspection date September 2010 [0910] Designated inspec				tion frequency 24 Months					
Unknown [Y60]				Underwater inspec	September 1994 [0994]				
Fracture critical inspection Every two years [Y24]				Fracture critical ins	inspection date September 2010 [0910]				
Other special inspec	Other special inspection Not needed [N]				ection date				

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Basic Information						40-31-30 =	074-14-21 = -
New York [36]	Richmond County [0	085]	New York [51000]	ARTHUR KILL		40-51-50 = 40.525000	74.239167
#Num!	Highway ager	ncy district #Num!	Owner Local Toll Author	ority [32] Mainte	enance responsibility	Local Toll Authority	y [32]
Route 440	RTE	440	Toll Toll br	ridge [1] Features i	ntersected ARTHUR KI	LL ROAD	
Design - Steel [3] main 39 Girder and	floorbeam system [0:	Design - approach 3] 0 Othe	r [00]	Skew angle 0 Stru	1.0 mi 'ear reconstructed 1962 cture Flared listorical significance is r		his time. [4]
Total length 704 m = Inventory Route, Total Deck structure type	Horizontal Clearanc	e 7.3 m = 24.0 ft Concrete Cast-in-Pla	Curb or sidewalk w	Deck width, out-to-out 16.9 n	n = 55.4 ft Bridge road		ourb 14.6 m = 47.9 ft 0.6 m = 2.0 ft
Type of wearing surface Deck protection Type of membrane/we	ce [Bituminous [6]					
Weight Limits Bypass, detour length 0.9 km = 0.6 mi	Wethou to deteri	mine inventory rating mine operating rating Equal to or above l	No rating analysis pe		76.9 metric ton =	= 84.6 tons	

Functional Details									
Average Daily Traffic 81600 Average daily tr	uck traffi 6 % Year 2010 Future average daily traffic	114240 Year	2030						
Road classification Principal Arterial - Other Freeways or Exp Lanes on structure 4 Approach roadway width 38.4 m = 126.0 ft									
Type of service on bridge Highway-pedestrian [5] Direction of traffic 2 - way traffic [2] Bridge median (no barriers)									
Parallel structure designation No parallel structure	e exists. [N]								
Type of service under bridge Highway, with or without	ut ped Lanes under structure 2 Navigation control	Not applicable, no w	raterway. [N]						
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A								
Minimum navigation vertical clearance, vertical lift brid	Minimum vertical clea	rance over bridge road	way 6.19 m = 20.3 ft						
Minimum lateral underclearance reference feature H	ghway beneath structure [H]								
Minimum lateral underclearance on right 8.8 m = 28.0	9 ft Minimum lateral undercl	earance on left $0 = N/A$	A						
Minimum Vertical Underclearance 8.99 m = 29.5 ft	Minimum vertical underclearance reference fe	eature Highway benea	ath structure [H]						
Appraisal ratings - underclearances Better than pres	ent minimum criteria [7]								
Repair and Replacement Plans									
Type of work to be performed	Work done by Work to be done by contract [1]								
Bridge deck rehabilitation with only incidental widening. [36]	Bridge improvement cost 25252000 Roadway im	nprovement cost	14788000						
Length of structure improvement 704 m = 2309.8 ft Total project cost 40040000									
	Year of improvement cost estimate 2011								
	Border bridge - state Bo	order bridge - percent ı	responsibility of other state						
	Border bridge - structure number								

Inspection and Sufficiency								
Structure status Open, no restriction [A]			Appraisal ratings - structural		Equal to present minimum criteria [6]			
Condition ratings - superstructur	Satisfactory [6]		praisal ratings - dway alignment					
Condition ratings - substructure	Satisfactory [6]	Ap	praisal ratings -	Basically in	nigh priority of replacement [2]			
Condition ratings - deck	Fair [5]	de	ck geometry					
Scour	Bridge not over waterway. [N]							
Channel and channel protection								
Appraisal ratings - water adequacy N/A [N]			Status evaluation Functionally obsolete [2]			Functionally obsolete [2]		
Pier or abutment protection					Sufficiency rating	64		
Culverts Not applicable. Used if structure is not a culvert. [N]								
Traffic safety features - railings								
Traffic safety features - transitions Inpected fea		npected feature m	eets currently accep					
Traffic safety features - approach								
Traffic safety features - approach	n guardrail ends	npected feature m	e meets currently acceptable standards. [1]					
Inspection date August 2010	[0810] Desig	nated inspection	frequency 24	M	onths			
Underwater inspection Not needed [N]			Underwater inspection date					
Fracture critical inspection Every two years [Y24]				ture critical inspection date August 2010 [0810]				
Other special inspection	Not needed [N]		Other special inspe	ction date				

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Basic Info	ormation									40-31-27 =	074-15-09 = -
New York	[36]	Richmond County [085]	N	lew York [51000]	ARTHUR	KILL			40.524167	74.252500
#Num!	#Num! Highway agency district #Num! Owner Local Toll Autho			Authority [32]		Maintenanc	e responsibility	Local Toll Authori	ty [32]		
Route 4	40	RTE	440		Toll	Toll bridge [1]		Features interse	ected STATE ST	REET RAMP, NJ TR	
Design - main	Steel [3] Girder and f	loorbeam system [0	Design - approach	Other [00	0]	Kilometer Year built Skew and	1928 Ile 0	Structure I			his time. [4]
Total length 1491.6 m = 4893.9 ft Length of maximum span 31.6 m = 103.7 ft Deck width, out-to-out 16.9 m = 55.4 ft Bridge roadway width, curb-to-curb 14. Inventory Route, Total Horizontal Clearance 7.3 m = 24.0 ft Curb or sidewalk width - left 0.6 m = 2.0 ft Curb or sidewalk width - right 0.6 m											
Deck structure of w	cture type earing surfac		Not applicab Bituminous [
Deck prote	Ü				only to structures w	ith no deck) [N]					
Type of m	embrane/we	aring surface									
Weight Li	mits										
Bypass, (detour length 0.6 mi	Method to deter		, ,		ysis performed [5 ysis performed [5		nventory rating Operating rating	19.5 metric ton 73.8 metric ton		
		Bridge posting	Equal to or	above lega	al loads [5]		[Design Load MS	S 18+Mod / HS 20)+Mod [6]	

Functional Details							
Average Daily Traffic 81600 Average daily tr	uck traffi 6 % Year 2010 Future average daily traffic 114240 Year 2030						
Road classification Principal Arterial - Other Freewa	ys or Exp Lanes on structure 4 Approach roadway width 18.2 m = 59.7 ft						
Type of service on bridge Highway-pedestrian [5] Direction of traffic 2 - way traffic [2] Bridge median Closed median (no ba							
Parallel structure designation No parallel structure	exists. [N]						
Type of service under bridge Highway-railroad [4]	Lanes under structure 4 Navigation control Not applicable, no waterway. [N]						
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A						
Minimum navigation vertical clearance, vertical lift brid	Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft						
Minimum lateral underclearance reference feature H	ghway beneath structure [H]						
Minimum lateral underclearance on right $1 \text{ m} = 3.3 \text{ ft}$	Minimum lateral underclearance on left 0 = N/A						
Minimum Vertical Underclearance 3.96 m = 13.0 ft	Minimum vertical underclearance reference feature Highway beneath structure [H]						
Appraisal ratings - underclearances Basically intoler	able requiring high priority of corrrective action [3]						
Repair and Replacement Plans							
Type of work to be performed	Work done by Work to be done by contract [1]						
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost 96435000 Roadway improvement cost 56472000						
or replacement. [54]	Length of structure improvement 1491.6 m = 4893.9 ft Total project cost 152907000						
	Year of improvement cost estimate 2011						
	Border bridge - state Border bridge - percent responsibility of other state						
	Border bridge - structure number						

Inspection and Sufficiency							
Structure status Open, no res	Open, no restriction [A]		Meets minimum tolerable limits	s to be left in place as is [4]			
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum crite	eria [6]			
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings -					
Condition ratings - deck	Fair [5]	deck geometry					
Scour	Bridge not over waterway. [N	J]					
Channel and channel protection	Not applicable. [N]						
Appraisal ratings - water adequac	y N/A [N]		Status evaluation	Functionally obsolete [2]			
Pier or abutment protection			Sufficiency rating 33.9				
Culverts Not applicable. Used	if structure is not a culvert. [N]						
Traffic safety features - railings							
Traffic safety features - transition	Not applica	ole or a safety feature is not required. [N]					
Traffic safety features - approach	n guardrail						
Traffic safety features - approach guardrail ends							
Inspection date September 2010 [0910] Designated inspection frequency 24 Months							
Underwater inspection	Not needed [N]	Underwater inspec	ction date				
Fracture critical inspection	Every two years [Y24]	Fracture critical in:	Fracture critical inspection date September 2010 [0910]				
Other special inspection	Not needed [N]	Other special insp	ection date				