(2565 hh 5603.36

1, LT , St ohh

Route 369 Are Stream Turtle CK		MRM	Dat	e 7/9/1	Z Ini	tials		
Bridge Structure No. 30250209 Loca GPS coordinates: N 440 351 36 917 to 190 461 21.50	ation 7.1	mi N of	- Va las	nd on	369	Are		
CDS goordinates: 1) 440 351 364 913	aken from:	USL abutmen	- ayin	centerline	of î MRM	end	_	
940 441 76 41	Datum of co	ordinates: Wo	GS84 ×	NAD27				
Drainage area = 137.95 sq. mi.								
The average bottom of the main channel was	O ft below	v top of guardr	ail at a poin	t_95_	_ft from le	ft abutment.	1	71
Method used to determine flood flows:Freq.	Anal	drainage area i	ratio /	regional reg	gression equ	iations.		20
		OUS CONSII		NS			8/0	
Flows	$Q_{100} =$	5250		$Q_{500} = 10800$			2	125
Estimated flow passing through bridge		5250		7375			5	545
Estimated road overflow & overtopping		0			3425		10	1120
Consideration	Yes	No	Possibly	Yes	No	Possibly	25	2310
Chance of overtopping		X		χ			50	3590
Chance of Pressure flow		\times		X			100	1525
Armored appearance to channel		λ					The state of	10800
Lateral instability of channel		>	estly on to		X	loth	500	11000
Bed Material	esN esXN Classification	MarginalDon't knowLow scantPte NoDoDoDoDoDoDoDo	notice ab on bett ed inder spat n't know n't know n't know	abutment, NANANA le Size (D5)	t controve t. Hard to Pipraple rose of also app concrete axhred	etion. Ver tell through one rete has	y hoan picture been pott about the above ones	wy sce placed in nutment. d. Hona scent
Material Silt/Clay X Sand Size range, in mm <0.062 0.062-2.				Cobbles_ 64-250		>250		
Comments, Diagrams & orientation of digital phot 1). left OB 2). main channel 3) right ors 4). left abutment 5). pright abutment 6). pre- 7). right abutment Summary of Results	os). left abu nain cha		-				1	
		Q100			Q500			
Bridge flow evaluated		5250			7375			
Flow depth at left abutment (yaLT), in feet		4.1			6.6			
Flow depth at right abutment (yaRT), in feet		0.5			2.6			
Contraction scour depth (ycs), in feet		4.3			9			

	Q100	Q500
Bridge flow evaluated	5250	7375
Flow depth at left abutment (yaLT), in feet	4.1	6.6
Flow depth at right abutment (yaRT), in feet	0.5	2.6
Contraction scour depth (ycs), in feet	4.3	9
Pier scour depth (yps), in feet	6	60 61
Left abutment scour depth (yas), in feet	13.4	17.9.
Right abutment scour depth (yas), in feet	2.3	10.6
1Flow angle of attack	30	3e