Route 243 rd St Stream		MRM	Da	te 6/14/	Z Init	ials Ral		
B:: 0 10/000	cation A	Fest	C 114	1		Cd - 1		
GPS coordinates: N 43° 51 × 51.71) W 9 8° 76 28725. 41	taken from:	USL abutmen	t	centerline o	of î MRM e	end		
Drainage area = 14.97 sq. mi.		ordinates: W	GS84_X_	NAD27_			21.	2
				22			8/3	20
The average bottom of the main channel was 10	ft below	v top of guardr	ail at a poin	t 15	_ft from lef	ft abutment.		
Method used to determine flood flows:Freq.	Anal.	dramage area	ratio	regional reg	ression equa	ations.		
MISCELLANEOUS CONSIDERATIONS								54.2
Flows	$Q_{100}^{25} = 66$ $Q_{999}^{59} = 7010$						PK2	192
Estimated flow passing through bridge	681			923			10	360
Estimated road overflow & overtopping	0			167				1
Consideration	Yes	No	Possibly	Yes	No	Possibly	25	681
Chance of overtopping		<i>></i>				X	50	1010
Chance of Pressure flow		X		Х			The state of the s	
Armored appearance to channel					7		100	1410
Lateral instability of channel					×		500	2710
Pi								
Riprap at abutments? Yes	No	Marginal	d d	anace I	Alore andor	1-1	- III	LI
Evidence of past Scour? Yes No Don't know danage . Now external								
Evidence of past Scour? Yes No Don't know road danage. Now external studies Potential? High Med Low mines antiment scour earder tridge 2 54,2								
of confraction score								
Does scoul countermeasure(s) appear to have been designed?								
RiprapYo	s No Don't know NA							682
	es No Don't know NA						- >	1010
OtherYesNoNA							100	
								2710
Bed Material Classification Based on Median Particle Size (D ₅₀)								
Material Silt/Clay Sand	CGravel			Cobbles		Boulders_		
Size range, in mm <0.062 0.062-2.	2.00-64			64-250		>250		
Comments, Diagrams & orientation of digital photos								
Note: No offerno								
1), letters abut ment all. 2), noin downel 7), left a but ment								
II main counter	(), (0)							
3). right Giz								
4-5) loft about ment	10). left ationed							
Road danage	11). Court aparmet							
2) main channel 7), left abutment 8-9) plers 4-5) left abutment 10), left abutment 11), ight abutment (up & downstream 12), main channel								
Summary of Results								
Summary of Results	Q1 00 5			Q500 ⁵⁰			1	
Bridge flow evaluated	65 - 682			823				
Flow depth at left abutment (yaLT), in feet	3.5			4,1				
Flow depth at right abutment (yaRT), in feet	3.3			41)			1	
Contraction scour depth (ycs), in feet	9,7			11.9			1	
Pier scour depth (yps), in feet	i,			4			1	
Left abutment scour depth (yas), in feet	18.5			10			1	
Right abutment scour depth (yas), in feet	18,5			10]	

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1Flow angle of attack