Route 272 Stream Dog Ear C	1	MRM	Da	te 45/16	/// In	itials 4	
Bridge Structure No. 62234220 Lo	action 5.4	- 1/ + 3	2 L	E 1/10		1775+	-
GPS coordinates: N 43° 27'31.3" V 99° 47' 03.5"		ordinates: W				end	
Drainage area = 10.74 sq. mi.				_			
The average bottom of the main channel was 12.0ft below top of guardrail at a point 53 ft from left abutment.							
Method used to determine flood flows:Freq.							
							Pk calci
Flows	$\frac{ SCELLANEOUS CONSIDERATION}{ Q_{100} = 1450}$			NS Q ₅₀₀ = 2480			
Estimated flow passing through bridge	1450			2480			0
Estimated now passing through orage Estimated road overflow & overtopping	1430			~ 100			7
Consideration	Yes No Possibly			Yes No Possibly			10
Chance of overtopping	103	X	1 Ossibly	103	X	1 0331019	-25 9
Chance of Pressure flow		×	-			X	-50 1
Armored appearance to channel		~	-		X	1	160 11
Lateral instability of channel		~					500 2
Eateral histability of channel						2	
Riprap at abutments? Yes	χ_{No}	Marginal					
	1						
Evidence of past Scour?Yes	X No	Don't knov	v				
Debris Potential?HighMedX_Low							
Does scour countermeasure(s) appear to have been	designed?			27 -674			
Riprap Y	es N	o Do	n't know	X NA			
	es N	-	-	XNA			
	-						
1	esN	D0	ii t kilow _	INA			
Pad Matarial	Classification	Dasad on M	adian Dantial	cina (D.)			
The second secon	Classification Based on Median Particl						
				Cobbles Boulders			
Size range, in mm < 0.062 0.062-2.	.00	2.00-64		64-250		>250	
Comments Discusses & adjustation of disital about							
Comments, Diagrams & orientation of digital photos							
Photos 53-R. Abut							
1949 100 17							
1949-115 P 50-45 51-45 RB 52-45 LB 53-45 LB 54-45 Face 55-45 LB 56-2014							
50 - 43							
51-45RB 55-45 Fac	i						
57-115/B C. De. 100							
- C 1/2							
Summary of Results . L. Abh	t						-
	Q100			Q500			
Bridge flow evaluated	1450			2480			
Flow depth at left abutment (yaLT), in feet	2.3			4.4			
Flow depth at right abutment (yaRT), in feet	3.0			5./			
Contraction scour depth (ycs), in feet	11.3			18.4			
Pier scour depth (yps), in feet	6,7 9,4			6.8]
Left abutment scour depth (yas), in feet	9,4			14.0]
Right abutment scour depth (yas), in feet	11. 5			15.2]
1Flow angle of attack	30°			30°			