ARIZONA DEPARTMENT OF TRANSPORTATION MATERIALS GROUP

SOILS AND AGGREGATE LABORATORY WORKSHEET

LAB#	PROJECT # FLAKINESS INDEX			TRACS#							
				CHECKED BY:							
			(AZ 233)								
SI	EVE SIZE	1/2"	3/8"	1/4"	#4	#8					
% Ret. from Sieve	Anaysis (F)										
% Pass from Sieve	e Analysis							Whe	n testin	g MA for ACFC,	
Weight Passing SI	ot							or Aggr	egate co	ver material only	
Weight of Split				200	100	50		**% Passing Slot = Wt. Passing Slo		Wt. Passing Slot	v 100
**% Passing Slot (P)								% Fassing		Wt. of Split	
NOTE: Only the size frac	ctions which have 10 percent -or i	more - retained a	e tested for pass	ing the appropri	ate slot and used i	n the equation b	elow.				
EQUATION:	FLAKINESS INDEX =	<u>.</u>		[F((1/2") x P (1/2 F(1/2	?")] + + [F ((#8) x P (#8)	1			
					F(1/2	") + + F (#	B)				
CALCULATION:	FLAKINESS INDEX =								=		%
	SAND EQUIVALENT		CHECKED BY:				ABRASIO	N		CHECKED BY:	
WASHED	(AASHTO T176)					(AASHTO T 96)					
UNWASHED	(AZ 242 for MAFC)					()					
							% Abrasion	· = -	A-B	x 100	
SAND READING =							70 ADI 03101	-	Α	X 100	
CLAY READING =					Where A = Original Mass (5000 ± 10 grams)						
SAND EQUIV. =				B= Plus #12 Material after Abrasion							
SAND READING =						100	Rev:		x 100 =		%
							_		•		
CLAY READING =SAND EQUIV. =				500 Rev: x 1		x 100 =	100 = %				
							-		Į.		
SAND READING =				Type of Abrasion							
CLAY READING =								L			
SAND EQUIV. =											
A	VERAGE SAND EQUIVALENT =				_						
FRACTURED COARSE AGGREGATE PARTICLES (AZ 212)					(CHECKED BY:					
	AT LEAST ONE		AT LEAST TWO								
Fractured Faces	FRACTURED FACE	F	RACTURED FACES	S	_						
Weight (Wf) Total Sample					grams						
Weight (Wa) Fractured Faces	300		300		grams						
(FF)= Wf/Wa × 100)					%						

TEST OPERA	DATE	
Abrasion		
Sand Equiv.		
Fractured Coarse		
Agg. Particles		
Flakiness		
Index		