FLAT OR ELONGATED PARTICLES IN COARSE AGGREGATE

North Dakota Department of Transportation, Materials & Research SFN 51700 (3-2020)

Project	PCN
District	Engineer
Contractor	Submitted By
Date Sampled	Material
Specification	Size or Class
Sample From	Field Sample Number

Pit Location

Sand	Gravel
Aggregate	Pit Owner

(B) Original Weight (/eight (Total Sample)			
Sieve Size		Weight Retained	Percent Retained*	Weight (~100 Particles)	Weight Flat/ Elongated	Percent Flat/ Elongated Individual Sieve	Percent Flat/ Elongated Weighted Average
mm	in.	(A) (gram)	(C) = A/B x 100	(D) (gram)	(E) (gram)	(F) = E/D x 100	(G) = A x F
37.5	1 1/2						
25.0	1						
19.0	3/4						
12.5	1/2						
9.5	3/8						
(H) = Su	(H) = Sum of (A)		I = Sum of (G)				
			-		Weig	hted Average = I/H	

*If the sieve has < 10% retained, do not test it. Use the value for the next size larger or smaller that has \geq 10% retained. If both a larger and smaller size have \geq 10% retained, use the average.

ND D 4791 Tested By	Tech ID	Date