

Procedure Checklist FM 1-R 090EW – Sampling of Earthwork

		P	F	N/A
A. Stockpiles (Manual Sampling – Board/Shovel Method)				
1.	Shove a board vertically into a stockpile just above the sampling point.			
2.	Remove the outer layer and sample from the material beneath.			
3.	Take increments from the top third, mid-point, and bottom third of the volume of the stockpile.			
4.	Obtain a minimum of three increments.			
5.	Combine the increments to form a field sample without contaminating or losing any material.			
6.	Ensure that the size of the field sample equals or exceeds the approximate minimum mass needed or stated in Table 1 attached.			
B. Roadway (Bases and Sub-bases)				
7.	Mark areas or place a metal template over specific areas from which increments will be taken.			
8.	Remove the material throughout the full depth.			
9.	Exclude any underlying material.			
10.	Combine the increments to form a field sample without contaminating or losing any material.			
11.	Ensure that the size of the field sample equals or exceeds the approximate minimum mass recommended in Table 1.			

Table 1: Size of Samples	
Nominal Maximum Size of Aggregates	Approximate Minimum Mass of Field Samples (lbs.)
Fine Aggregate	
No. 8	25
No. 4	25
Coarse Aggregate	
$\frac{3}{8}$ in.	25
$\frac{1}{2}$ in.	35
$\frac{3}{4}$ in.	55
1 in.	110
1- $\frac{1}{2}$ in.	165
2 in.	220
2- $\frac{1}{2}$ in.	275
3 in.	330
3- $\frac{1}{2}$ in.	385

Remarks: Comparison Criteria: N/A

Date: _____ Technician: _____ IA Observer: _____

Technician's E-mail Address: _____

Employer's/ Supervisor's E-mail Address: _____