SOIL-CEMENT MIX DESIGN WORKSHEET
DOTD TR 432 METHODS B & C

DOTD 03-22-0757
1/96

PROJECT NO.:_____ COMPOSITE NO(S).:_____ SAMPLE NO.:_____ LAB NO.:_____

TYPE SOIL:_____ DATE MOLDED:_____ TESTED BY:_____ CHECKED BY:_____

BREAK DATE:_____ MIN. CEM. FACTOR:_____% By Wt. _____% By Vol. OPT. MOIST.,% _____ MAX.DWD_____

COMPRESSION TEST DATA

Cylinder Number	% Cem't by Wt.	Break Code	Dial Reading	Failure Load (Z) (kN or Lb)	Compressive Strength (P) (MPa or PSI)	Average Compressive Strength (Q) (MPa or PSI)
	6					
	9					
	12					
	15					

(Cement Stabilized or Treated Material)

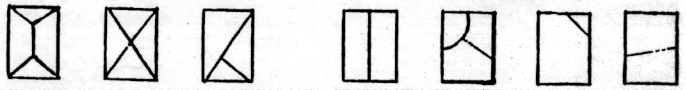
COMPRESSIVE STRENGTH

PERCENT CEMENT BY WEIGHT

REMARKS:_____

TYPE OF BREAK 1 = Regular 2 = Irregular

DESCRIPTION



SOIL CEMENT DESIGN CALCULATIONS
DOTD TR 432 - METHODS B & C

OPTIMUM MOISTURE AND DESIGN MOISTURE

Soil Group (TR 423) A-_____ Classification (TR 423) _____

Optimum Moisture Content of Material (DB) = _____% Design Moisture Content (DM = DB + V) = _____%

Max. Dry Weight Density of Material (DC) = _____

(DOTD TR 415 ____ DOTD TR 418 ____)

For A-4 and A-6 Soils, V = 1.0%
For all other soils, V = 0.5%

METHOD B

% Cement (by wt.)	Dry Weight of Material (g)	Cement (g)	Material + Cement (g)	Evap (mL)	Slake Water (mL)	Slake Time	Net Water (mL)	Net Water Time	Molding Time
H	I	J	K	L	M		N		
					K x (DM -5)/100		L + 0.05K		
6		138	2438	24			146		
9	2300	207	2507	25			150		
12		276	2576	26			155		
15		345	2645	26			158		

METHOD C

% Cement (by wt.)	Dry Weight of Material (g)	Cement (g)	Material + Cement (g)	Evap (mL)	Slake Water (mL)	Slake Time	Net Water (mL)	Net Water Time	Molding Time
H	I	J	K	L	M		N		
					K x (DM -5)/100		L + 0.05K		
6		378	6678	67			401		
9		567	6867	69			412		
12	6300	756	7056	71			424		
15		945	7245	72			434		