



DOVELA	$\Delta W$ (ton)	$\alpha$ °	$\sin \alpha$	$\Delta T$ (ton)	$Ci \alpha$	$Ci \alpha$
0-1	43.95	53.98	0.808	35.51	2X2.5	5.00
1-2	60.40	28.95	0.484	29.24	2X6.0	12.00
2-3	39.60	10.60	0.184	10.90	6X5.0	30.00
3-4	38.40	-7.94	0.138	-5.29	6X5.0	30.00
4-5	34.00	-25.78	0.434	-14.75	7X17.2	120.40
5-6	20.60	-47.63	0.738	-15.05		

$\Sigma = 40.56 \text{ T}$   $\Sigma = 197.40 \text{ t}$

FACTOR DE SEGURIDAD: FS

$$F_s = \frac{F_{zas \text{ RESISTENTES}}}{F_{zas \text{ ACTUANTES}}} = \frac{\Sigma C \alpha}{\Sigma \Delta T} = \frac{197.40 \text{ t}}{40.56 \text{ t}} = 4.86 > 2.00$$

$F_s = 4.86 \geq 2.00$  PARA SUELOS ARCILLOSOS , POR LO TANTO ES ESTABLE.

CALCULO DE ESTABILIDAD MÉTODO DE LAS DOVELAS

FIGURA No. 1