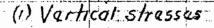
TV-5 LATERAL EARTH PRESSURES

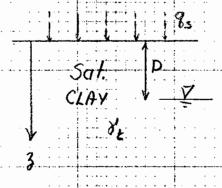
Page Na 1. Cohesionless Soil: Effect of Varying Water Conditions (Active) 1.1 Example Problem (No wall frection) 1.2 Results for Various Conditions 1.3 Case 4 1.4 Case 5 1.5 Coulomb: General 2. Cohesive Soils: Ranking (Drained Shear) 2.1 Basic Relationships (Fill Capillarity; no evaporation) 2.2 Ranking Passive 2.3 Coulomb Passire 2.4 Rankine active 3. Cohasiva Activa: Tension Cracks 3.1 Basic Problems Ь 3.2 Tensin Crack due to Negative T' 3.3 Tensin Crack due to Negative or

CCL 11/8/83 11/88: 10/96
PartIV-5 EARTH PRESSURES (p3/7)

2. COHESIVE SOILS: RANKINE (Drained Shear)

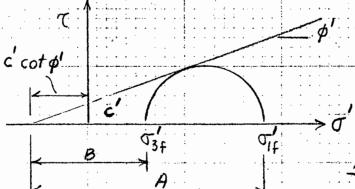
2.1 Basic Relationships (Full copillarity; na evaporation)





(Without 95)

(2) Effective stresses at failure



$$\frac{A}{B} = N\phi = \frac{c'\cot\phi' + \sigma_{if}}{c'\cot\phi' + \sigma_{if}}$$

= ton2 (45+0/2)

No = 1+sing

Define No [=(0, 103), for c=0]

$$= \mathcal{N}_{\phi} = \frac{c \cot \phi + \sigma_{if}}{c' \cot \phi' + \sigma_{if}}$$

$$(N_{\phi}-1) = 2 \tan \phi \sqrt{N_{\phi}}$$

$$\sqrt{N_{\phi}} = \frac{\cos \phi'}{1-\sin \phi'}$$

