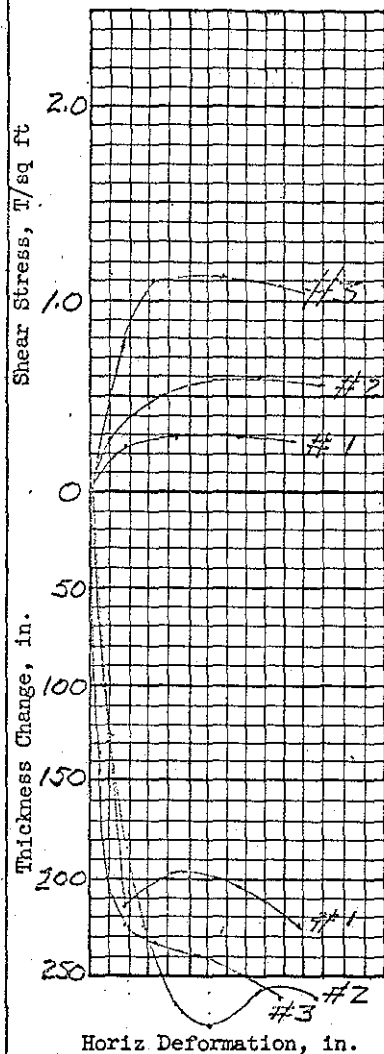


DRILLING LOG		DIVISION Southwestern		INSTALLATION Galv Dist, Eng Div		Hole No. 3ST-20 SHEET OF SHEETS	
1. PROJECT Neches River - Channel to Evadale				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY U. S. Army Corps of Engineers				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) 3ST-20				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 Jars	
5. NAME OF DRILLER Curtis				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		16. DATE HOLE 6 Jars	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING %			
9. TOTAL DEPTH OF HOLE 30.0				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	11.0		Water				
11.0	12.0		Gray sandy clay org. soft			Jar 1	
12.0	14.0		Gray sand fine organic			Jar 2	
14.0	16.0		Gray sand, no recovery 14.0-14.5 No count 14.5-15.0 2 blows 15.0-15.5 6 blows			Jar 3	
16.0	18.0		Same as below, washed				
18.0	20.0		Gray sand, tr org. no recovery 18.0-18.5 No count 18.5-19.0 7 blows 19.0-19.5 12 blows			Jar 4	
20.0	23.0		Same as above, washed				
23.0	25.0		Gray sand fine org decayed wood, washed 23.0-23.5 No count 23.5-24.0 16 blows 24.0-24.5 15 blows 24.5-25.0 No count			Jar 5	
25.0	30.0		Same as above, unable to drive, could not set casing washed BOTTOMED			Jar 6	



Shear Values

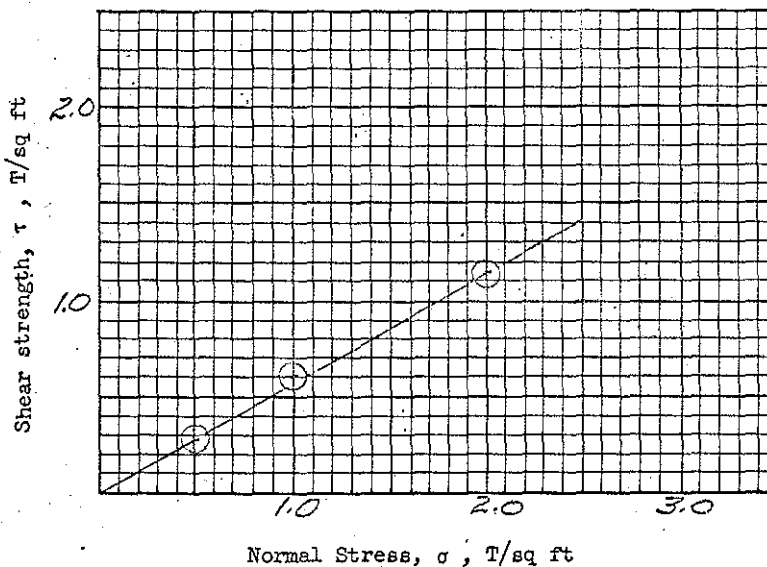
$\phi' = 29.50$
 $\tan \phi' = 0.565$
 $c' = 0.0$

Test Type (Check One)

☐ Controlled, stress

☒ Controlled, strain

Test No.		1	2	3	
Initial	Water content	w_o	%	%	%
	Void ratio	e_o			
	Saturation	S_o	%	%	%
	Dry density lb/cu ft	γ_d	110	109	108
Void ratio after consolidation		e_c			
Time for 50% consolidation, min		t_{50}			
Final	Water content	w_f	%	%	%
	Void ratio	e_f			
	Saturation	S_f	%	%	%
Actual time to failure, min.		t_f	200	420	400
Normal stress T/sq ft		σ	0.5	1.0	2.0
Maximum shear strength, T/sq ft		τ	0.28	0.60	1.13



Type of Specimen Remolded 3 in. Square 0.75 in. Thickness

Classification Gray sand (SP)

LL NP PL PI D₁₀

Remarks composite
sample from
holes 35T-18-20 & 23

Project Neches River
channel to Evadale
 Area

sample puddled
in shear ring

Boring No. Sample No.
 Depth 15-35 Date MAY 1966

DIRECT SHEAR TEST REPORT

PROJECT: Neches River

LOCATION: Channel to Evadale

TEST DATA SUMMARY

BORING NO. 357-20

DATE DRILLED

[illegible]

CONSISTENCY -- COHESIVE SOILS						CONSISTENCY -- COHESIONLESS SOILS				
VS	S	M	ST	VST	H	VL	L	M	D	VD
Very Soft	Soft	Medium	Stiff	Very Stiff	Hard	Very Loose	Loose	Medium	Dense	Very Dense

- (1) Tons/Sq.Ft. Unconfined Compressive Strength
- (2) Split Barrel Sampler
- (3) Acc. Wt. Rtd. $\div$ Init. Wt. $\times 100 = \% \text{ Rtd.}$

BORING NO. 357-20