

36										
37										
38										
39										
40	15	15								
41			10		21					SILT, BRN, W/SM SAND, CLAY, & SILT STN
42			10							
43			11		26	36				
44			12		23					
45	12	16								
46			13		29	32				CLAY, BROWN, W/CLAY-STONE, STIFF
47			14	0-	21	125	27			
48			15	0-	38	126	28			
49			16	0-	50	128	27			
50	16	18								
51			17	0-	51	137	19			
52			18	0-	51	137	18	45		
53			19	0-	49	137	18			
54			20	0-	52	137	19			
55	23	36								
56			21			16				SAND-CLAY MIX, BRN, W/CALCS & FER NGD
57			21							
58			22		150	13				
59			23		147	11	28			
60	50/4.00	50/3.50								
61										SAND, W/STONE LAYERS, DRILLED OUT
62										
63										
64										
65	50/5.25	50/4.00								
66										
67										
68										
69										
70	34	37								
71										SAND, DRILLED OUT
72										
73										
74										
75	37	40								

DRILLER- MIKE BAHM

LOGGER- R.K.CURSON
TITLE-

PROB (CONTD)

1778

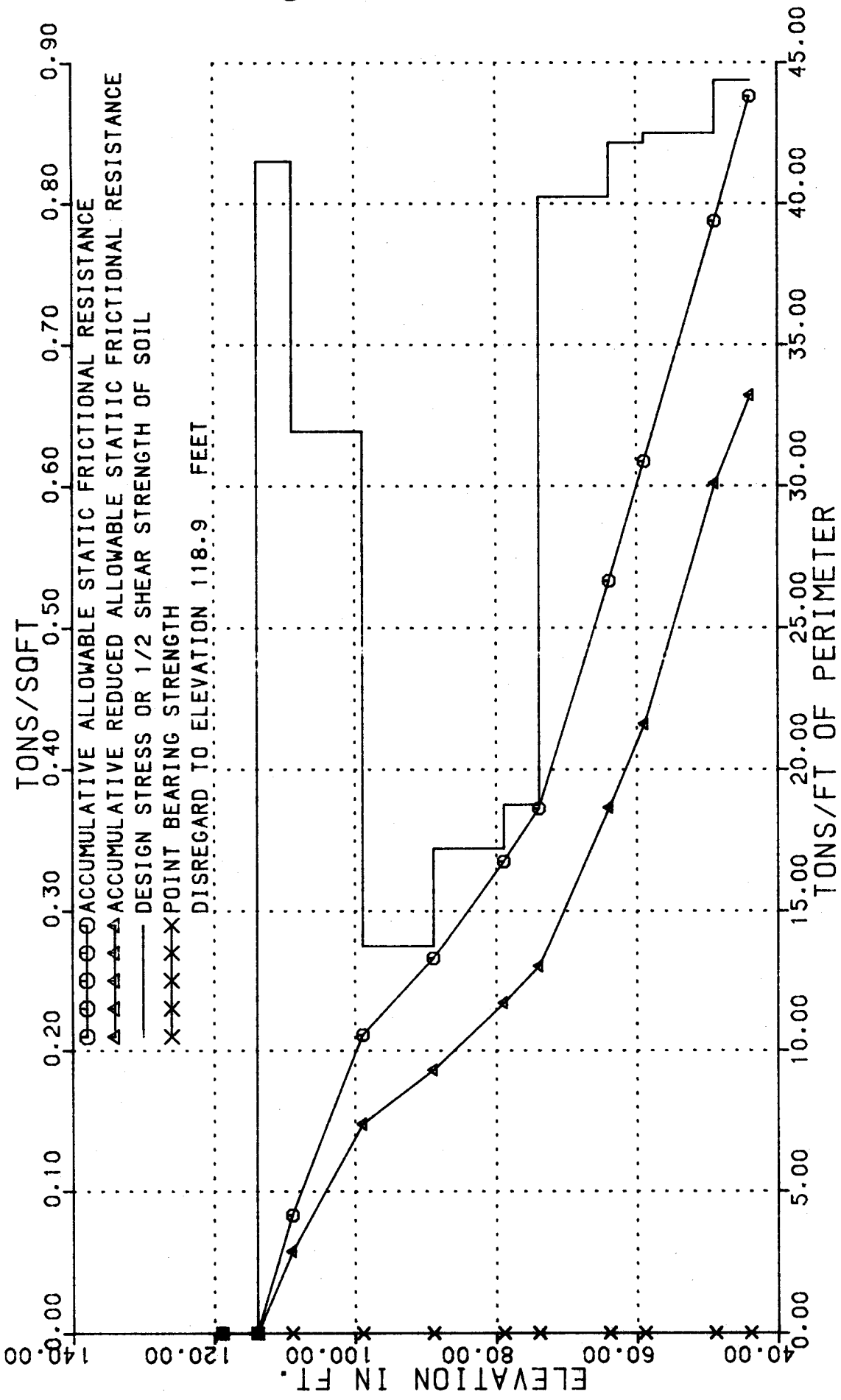
(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS
 DISREGARD TO ELEVATION IS 118.9 FEET

HOLE NUMBER 1

STRATA NUMBER	ELEVATION -FEET-		DESIGN STRESS OF SOIL TONS/SQFT PER STRAT	ALLOWABLE STATIC FRICTIONAL RESISTANCE (DS) TONS PER FT OF PERIMETER PER ACCUM-		SR	REDUCED ALLOWABLE STATIC FRICTIONAL RESISTANCE PER ACCUM-		BEAR FACTOR NC	POINT BEARING STRENGTH SNC TONS/SQFT	TAT TO PEN RAT
	FROM	TO		PER	ACCUM-		STRATUM	ULATIVE			
1	118.9	113.9	0.00	0.00	0.00	0.7	0.00	0.00	4.29	0.00	0.0
2	113.9	108.9	0.83	4.15	4.15	0.7	2.90	2.90	2.57	0.00	1.1
3	108.9	98.9	0.64	6.39	10.54	0.7	4.47	7.38	4.29	0.00	1.9
4	98.9	88.9	0.27	2.75	13.29	0.7	1.92	9.30	4.29	0.00	0.0
5	88.9	78.9	0.34	3.44	16.73	0.7	2.41	11.71	4.29	0.00	0.0
6	78.9	73.9	0.38	1.88	18.60	0.7	1.31	13.02	4.29	0.00	0.0
7	73.9	63.9	0.80	8.05	26.65	0.7	5.63	18.65	3.62	0.00	1.6
8	63.9	58.9	0.84	4.21	30.86	0.7	2.95	21.60	4.29	0.00	0.0
9	58.9	48.9	0.85	8.50	39.36	1.0	8.50	30.10	4.29	0.00	0.0
10	48.9	43.9	0.89	4.44	43.80	0.7	3.11	33.21	4.29	0.00	0.0

FOUNDING MATERIAL PROPERTIES



COUNTY	FT. BEND	STRUCTURE SH99 @ CINCO BLVD.	THD DIST	12
HIGHWAY NO	SH99	HOLE NO	DATE	1/9/89
CONTROL	3510-05-001	STATION	BY	JPG
IFE		LOCATION		
		1468+61-20		
		1.8' LT		

DRILLING LOG

COUNTY FT. BEND
 HIGHWAY NO SH99
 CONTROL 3510-05-001
 IPE

STRUCTURE SH99 • CINCO BLVD.
 HOLE NO 1
 STATION 1468+61.20
 LOCATION 1.8' LT

THD DIST 12
 DATE 1/9/89
 GRD. ELEV. 118.9
 GRD. WATER ELEV. 118.9

ELEV FT.	LOG	THD PEN. TEST NO. OF BLOWS		DESCRIPTION OF MATERIAL	METHOD OF CORING
		1ST 6"	2ND 6"		
118.9 0				FILL, NO RECOVERY	0
113.9		20 (6.0")	18 (6.0")	CLAY, SL. SANDY, BRN. BR. STIFF	
108.9 10		19 (6.0")	10 (6.0")	SAND, GR. TN. SL. COMPACT	10
		17 (6.0")	18 (6.0")		
98.9 20		10 (6.0")	11 (6.0")	SAND, WATERBEARING, DRILLED OUT	20
		13 (6.0")	10 (6.0")		
88.9 30		13 (6.0")	16 (6.0")	SAND, WATERBEARING, DRILLED OUT	30
		11 (6.0")	15 (6.0")		
78.9 40		15 (6.0")	15 (6.0")	SILT, BRN. W/SH CLAY, SAND, & SILT STN	40
73.9		12 (6.0")	16 (6.0")	CLAY, BRN. W/CLAY-STONE, STIFF	
50		16 (6.0")	18 (6.0")		50
63.9		23 (6.0")	36 (6.0")	SAND-CLAY MIX, BRN. W/CALCS & FER NOD	
58.9 60		50 (4.0")	50 (3.5")	SAND, DRILLED OUT, W/STONE LAYERS	60
		50 (5.2")	50 (4.0")		
48.9 70		34 (6.0")	37 (6.0")	SAND, DRILLED OUT	70
		37 (6.0")	40 (6.0")		
•REMARKS: NO GWE MEASURED					

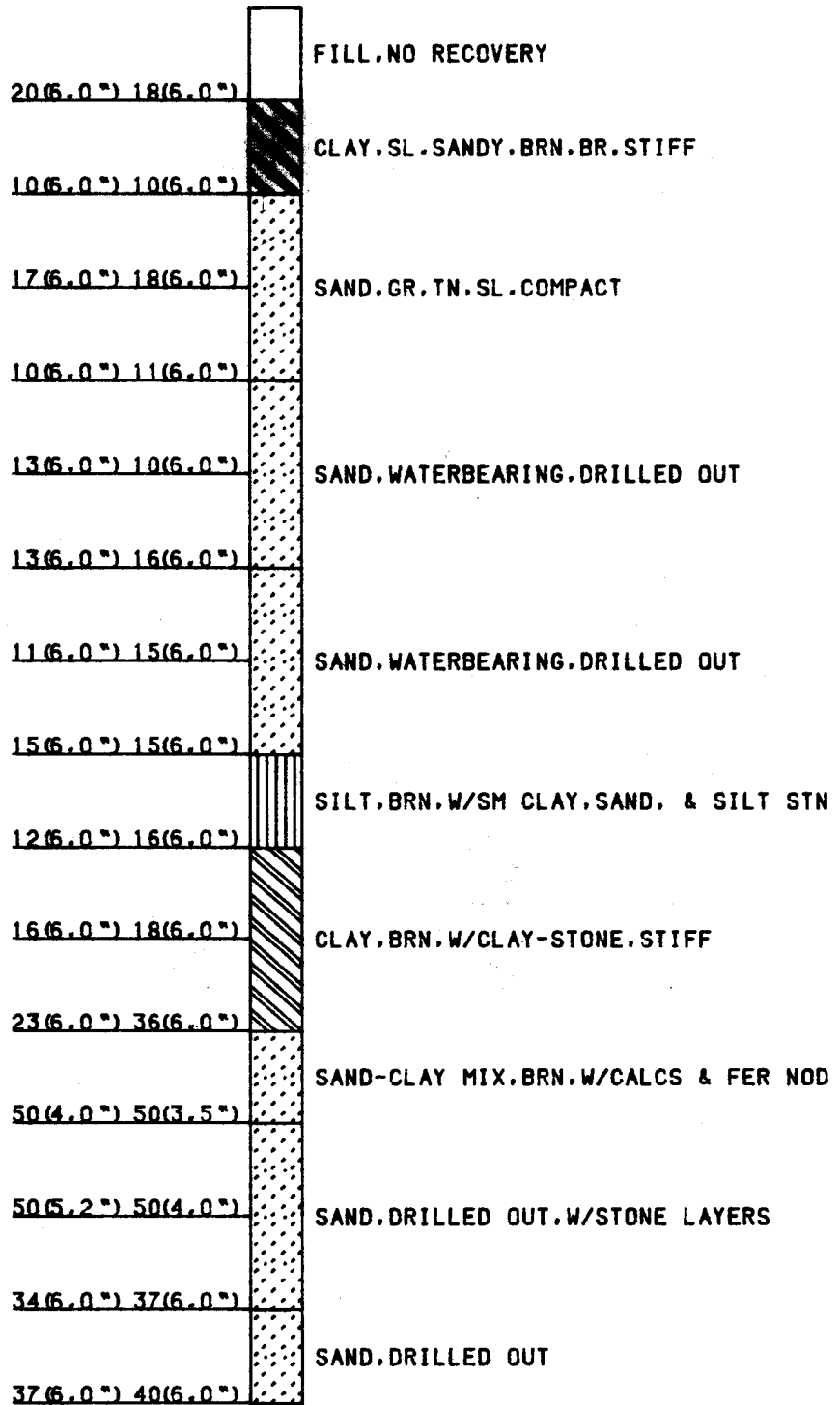
DRILLER MIKE BAHM

LOGGER R.K.CURSON

TITLE

TEST HOLE NO. 1.

GROUND ELEV. 118.9



36
 37
 38
 39
 40 6 7
 41 17 19
 42 17
 43 18 18
 44 19 128 28
 45 3 3
 46 20 0- 30 126 27
 47 21 0- 35 126 28
 48 22 0- 26 122 30
 49 23 0- 34 125 29
 50 16 18
 51 24 0- 51 133 19
 52 25 0- 51 134 19 55
 53 26 0- 50 134 19
 54 27 0- 47 135 19
 55 17 21
 56 28 15
 57 29 0- 47 135 15 62
 58 30 130 22
 59 31 0- 44 133 15
 60 27 26
 61
 62
 63
 64
 65 18 21
 66
 67
 68
 69
 70 41 50
 71
 72
 73
 74
 75 50/0.75 50/0.50

SAND, BROWN. LOOSE

CLAY, BROWN, STIFF

CLAY, SL. SANDY, BROWN, W/CALCS. NODS

SAND, WATERBEARING, DRILLED OUT

SAND, DRILLED OUT

DRILLER- MIKE BAHM

LOGGER- R.K. CURSON
 TITLE-

PROB (CONTD)

1778

(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS

HOLE NUMBER 2

STRAT NUM.	ELEVATION -FEET-		STRAT THICK NESS FEET	CEN- TROID DEPTH FEET	UNIF. SOIL CLASS	PEN TEST BLOWS/ FOOT	TEST CONST	SOIL WET			VARIANCE TAT			
	FROM	TO						COHES LBS/ SQFT	DENS LBS/ CUFT	INT. FRIC ANG.	PEAK	AVG	RATIO	
1	119	112	7.0	3.5	OTHE	35.0	80							
2	112	109	3.0	8.5	CL			3704	142	0.0				
3	109	104	5.0	12.5	OTHE	20.0	80	2026	141	0.0	1.4	0.9	3.8	
4	104	99	5.0	17.5	OTHE	35.0	80							
5	99	94	5.0	22.5	OTHE	22.0	80							
6	94	84	10.0	30.0	OTHE	21.0	80							
7	84	79	5.0	37.5	OTHE	24.0	80							
8	79	74	5.0	42.5	OTHE	13.0	80							
9	74	64	10.0	50.0	CH	20.0	50	2914	129	0.0	7.4	4.5	4.0	
10	64	59	5.0	57.5	CH	38.0	50	3280	134	0.0				
11	59	49	10.0	65.0	OTHE	46.0	80							
12	49	44	5.0	72.5	OTHE	91.0	80							

PROB (CONTD)

1778

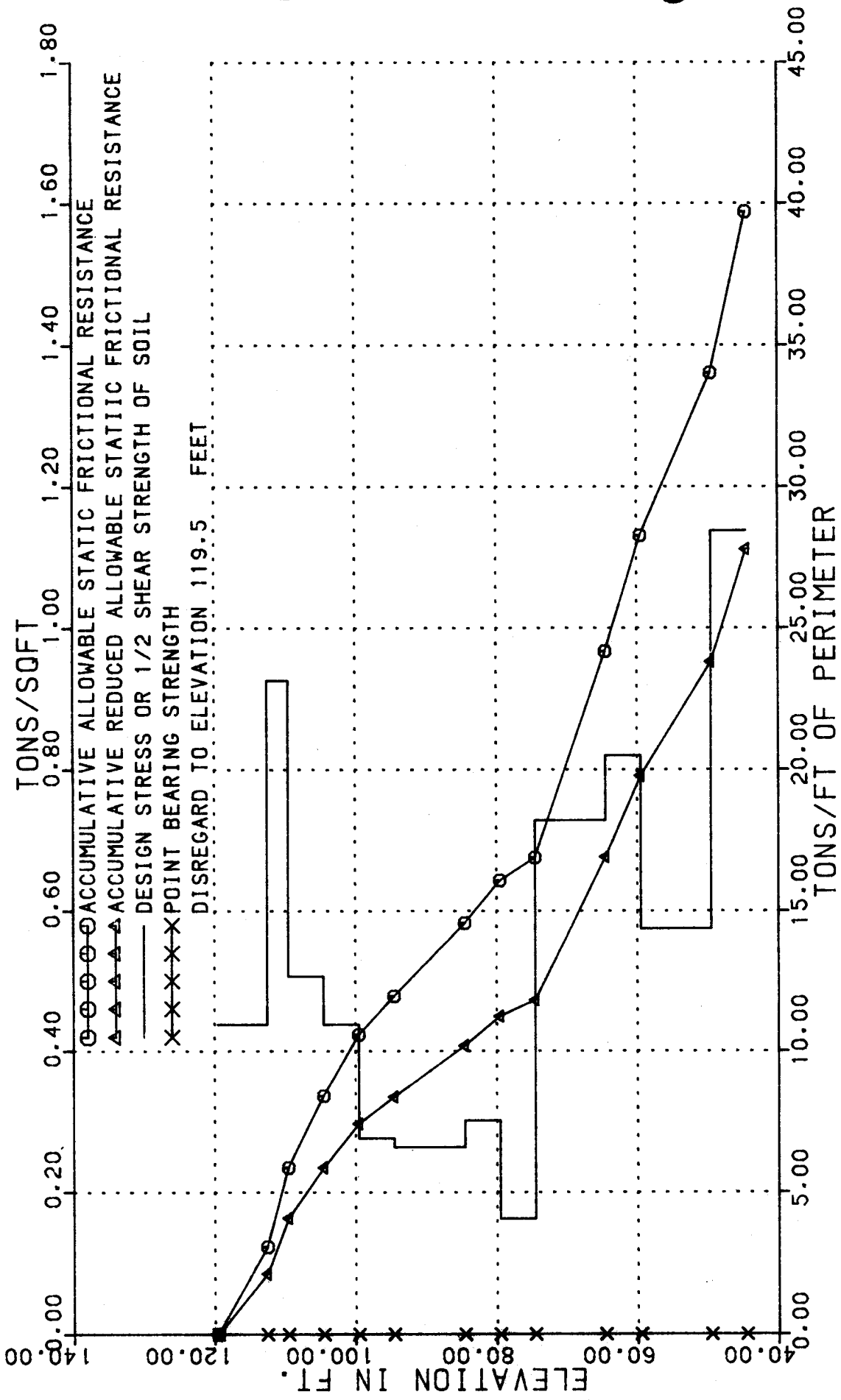
(NOTE: NO SOIL IS DISREGARDED FOR STRENGTH ANALYSIS)

SOIL STRENGTH ANALYSIS RESULTS
 DISREGARD TO ELEVATION IS 119.5 FEET

HOLE NUMBER 2

STRATA NUMBER	ELEVATION -FEET-		DESIGN STRESS OF SOIL TONS/SQFT PER STRAT	ALLOWABLE STATIC FRICTIONAL RESISTANCE (DS) TONS PER FT OF PERIMETER PER ACCUM-		SR	REDUCED ALLOWABLE STATIC FRICTIONAL RESISTANCE ----- PER ACCUM-		BEAR FACTOR NC	POINT BEARING STRENGTH SNC TONS/SQFT	TAT TO PEN RAT
	FROM	TO		PER	ACCUM-		PER	ACCUM-			
1	119.5	112.5	0.44	3.06	3.06	0.7	2.14	2.14	4.29	0.00	0.0
2	112.5	109.5	0.93	2.78	5.84	0.7	1.94	4.09	3.62	0.00	0.0
3	109.5	104.5	0.51	2.53	8.37	0.7	1.77	5.86	4.29	0.00	2.0
4	104.5	99.5	0.44	2.19	10.56	0.7	1.53	7.39	4.29	0.00	0.0
5	99.5	94.5	0.27	1.37	11.94	0.7	0.96	8.35	4.29	0.00	0.0
6	94.5	84.5	0.26	2.62	14.56	0.7	1.84	10.19	4.29	0.00	0.0
7	84.5	79.5	0.30	1.50	16.06	0.7	1.05	11.24	4.29	0.00	0.0
8	79.5	74.5	0.16	0.81	16.87	0.7	0.57	11.81	4.29	0.00	0.0
9	74.5	64.5	0.73	7.29	24.16	0.7	5.10	16.91	2.57	0.00	1.8
10	64.5	59.5	0.82	4.10	28.26	0.7	2.87	19.78	2.57	0.00	1.1
11	59.5	49.5	0.57	5.75	34.01	0.7	4.02	23.81	4.29	0.00	0.0
12	49.5	44.5	1.14	5.69	39.70	0.7	3.98	27.79	4.29	0.00	0.0

FOUNDING MATERIAL PROPERTIES



COUNTY	FT. BEND	STRUCTURE SH99 • CINCO BLVD.	THD DIST
HIGHWAY NO SH99	HOLE NO 2		DATE 1/9/89
CONTROL 3510-05-001	STATION 1470+60.70		BY JPC
IPE	LOCATION 0.4' LT		

TEST HOLE NO. 2

GROUND ELEV. 119.5

