



STATE OF ALABAMA  
HIGHWAY DEPARTMENT

MONTGOMERY, ALABAMA 36104

H. L. NELSON  
STATE HIGHWAY DIRECTOR

May 7, 1965

R G KENDALL JR  
ASSISTANT HIGHWAY DIRECTOR

Mr. B. E. Higgins  
Bridge Engineer  
Bridge Bureau  
O F F I C E

Re: Bridge Foundation Investigation  
Project I-10-1(18) 54  
Baldwin County

Dear Sir:

Attached are the boring logs which were recorded at the above referenced bridge site.

These borings indicate that the dense sand underlying the area will restrict adequate steel pile penetration. Therefore, it is believed that spread footings placed at about depth elevation 54.0 to 56.0 will provide suitable foundations.

Very truly yours,

D. B. Flournoy, Acting  
Engineer of Materials  
and Tests

BY Edward Eiland  
Edward Eiland, Assistant  
Engineer of Materials  
and Tests

RDP:sjr

cc: Mr. F. A. Robison  
Mr. W. F. Land  
Project Engineer  
BPR (send to Mr. Higgins)  
Mr. John Jordan  
Project File  
File

Attachments

## Form M &amp; T F-1

Bridge Foundation Investigation  
I-10-1(18) 54  
Re: Baldwin County

Listed below are the results of soundings made at the above location.

	C/L	Ft.	Co. Rd.	T.	STA.	9+66
Elevation of Hub.	72.0					
72.0	to 63.0					Medium brownish silty sand clay
63.0	" 62.5					Layer soft sandrock
62.5	" 56.0					Dense medium grain sand
56.0	" 54.7					N/.5 = 7 N/1.0 = 24 N/1.3 = 26 (N/.8 = 50)
54.7	" 52.0					Very dense medium grain sand
52.0	" 51.2					N/.5 = 21 N/.8 = 29 (N/.8 = 50)
51.2	" 48.0					Very dense light brownish fine sand
48.0	" 47.3					N/.5 = 39 N/.7 = 11 (N/.7 = 50)
		Ft.		T.	STA.	
Elevation of Hub.						
47.3	to 44.0					Very dense medium grain sand
44.0	" 42.5					N/.5 = 12 N/1.0 = 3 N/1.5 = 5 (N/1.0 = 8)
42.5	" 40.0					Stiff gray slightly silty clay
40.0	" 38.5					N/.5 = 9 N/1.0 = 16 N/1.5 = 26 (N/1.0 = 42)
38.5	" 36.0					Hard grayish slightly sandy clay
36.0	" 34.5					N/.5 = 10 N/1.0 = 15 N/1.5 = 15 (N/1.0 = 30)
34.5	" 32.0					Hard gray slightly sandy clay
32.0	" 30.5					N/.5 = 10 N/1.0 = 13 N/1.5 = 23 (N/1.0 = 36)

		Ft	T. STA.
Elevation of Hub			
30.5	to	28.0	Hard grayish sand clay
28.0	"	26.5	N/.5 = 8 N/1.0 = 8 N/1.5 = 8 (N/1.0 = 16)
26.5	"		Very stiff gray clay
	"		
	"		
	"		
	"		
	"		
	"		
		C/L Ft	Co. Rd. T STA 10+34
Elevation of Hub		73.0	
73.0	to	64.0	Medium brownish sandy clay
64.0	"	63.8	Layer soft brown sandrock
63.8	"	40.5	Dense medium grain sand w/pea gravel
40.5	"	40.3	Layer soft brown sandrock
40.3	"	33.0	Hard grayish slightly sandy clay
33.0	"		Still in hard grayish slightly sandy clay
	"		
	"		
		C/L Ft	Co. Rd. T STA 12+62
Elevation of Hub		75.0	
75.0	to	64.0	Medium brownish silty sand clay
64.0	"	63.5	Soft brown sandrock layer
63.5	"	59.0	Dense medium grain sand
59.0	"	58.3	N/.5 = 25 N/.7 = 25 (N/1.7 = 50)
58.3	"	55.0	Very dense medium grain sand w/small pea gravel
	"		
55.0	"	53.6	N/.5 = 10 N/1.0 = 15 N/1.4 = 35 (N/.9 = 50)
53.6	"	51.0	Very dense medium grain sand w/small pea gravel

		Ft	T	STA
Elevation of Hub				
51.0	to	49.9	N/.5 = 6	N/1.0 = 28 N/1.1 = 22 (N/.6 = 50)
49.9	"	47.0	Very dense medium grain sand w/small pea gravel	
47.0	"	46.1	N/.5 = 20	N/.9 = 30 (N/.9 = 50)
46.1	"	43.5	Very dense medium grain sand	
43.5	"	43.2	Soft brown sandrock layer	
43.2	"	43.0	Hard brownish clay	
43.0	"	41.5	N/.5 = 10	N/1.0 = 12 N/1.5 = 25 (N/1.0 = 37)
		Ft	T	STA
Elevation of Hub				
41.5	to	39.0	Hard brownish slightly sandy clay	
39.0	"	37.5	N/.5 = 11	N/1.0 = 15 N/1.5 = 23 (N/1.0 = 38)
37.5	"	35.0	Hard brownish slightly sandy clay	
35.0	"	33.5	N/.5 = 10	N/1.0 = 13 N/1.5 = 23 (N/1.0 = 36)
33.5	"		Hard brownish slightly sandy clay	
	"			
	"			
	"			
		C/L	Co. Rd. T.	STA 13+30
Elevation of Hub		75.0		
75.0	to	71.0	Medium brownish sandy clay	
71.0	"	70.5	Soft layer brown sandrock	
70.5	"	48.7	Dense medium grain sand w/small pea gravel	
48.7	"	48.2	Layer soft brown sandrock	
48.2	"	44.0	Dense medium grain sand w/small pea gravel	
44.0	"	43.8	Layer soft brown sandrock	
43.8	"	43.0	Dense medium grain sand w/small pea gravel	
43.0	"	35.0	Hard brownish slightly sandy clay	

Ft

T

STA

Elevation of Hub

35.0

to

Still in hard brownish slightly sandy clay

"

"

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Ft

T

STA

Elevation of Hub

to

"

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Ft

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STA

Elevation of Hub

to

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