

JAT/MCC

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

051-0125-0  
0126-0

INTERDEPARTMENT CORRESPONDENCE

PROJECT NH-95-1(24) Chatham OFFICE Materials & Research  
 P. I. No. 511160 Forest Park, Georgia  
 DATE January 18, 1994

FROM Ronald Collins, State Materials and Research Engineer

TO Paul Liles, State Bridge and Structural Design Engineer

SUBJECT BRIDGE FOUNDATION INVESTIGATION  
 I-95 OVER SR 30/SR 21, BRIDGE NO. 49

As requested, a Bridge Foundation Investigation has been made at the above listed site. The results of this work are attached.

If any additional information is needed, please contact Melvin Collins of the Geotechnical Engineering Bureau at (404)363-7546 or GIST 227-7546.

RC:MDC:gt

Attachment

copy: Craig Brack, District Engineer, Jesup



# BRIDGE FOUNDATION INVESTIGATION

PROJECT NO.: NH-95-1(24) Chatham

P. I. No. 511160

LOCATION: See Map I-95 over SR 30/SR 21

Bridge No. 49

GEOLOGIC FORMATION: Pamlico Shoreline Complex

NOTABLE SUBSURFACE FEATURES: Very dense to dense material below Elevation -20

## MAXIMUM PILE DESIGN LOADS

TIMBER =	12" MS=	12" PSC= 43 Tons	10 BP42 =
END BEARING-( 60% )	14" MS=	14" PSC= 64 Tons	12 BP 53=
FRICTION- ( 40% )	16" MS=	16" PSC= 82 Tons	14 BP 73=
	18" MS=	18" PSC= 86 Tons	

## FOUNDATION RECOMMENDATIONS

<u>BENT</u>	<u>SPREAD FTG. (BEARING)</u>	<u>PILE FTG. (PILE TYPE)</u>	<u>PILE BENT (PILE TYPE)</u>
1,5	(       )	(       )	( PSC )
2-4	(       )	( PSC )	(       )
	(       )	(       )	(       )
	(       )	(       )	(       )
	(       )	(       )	(       )

## ELEVATIONS

<u>BENT</u>	<u>BOTTOM of FTG.</u>	<u>MINIMUM TIP</u>	<u>ESTIMATED TIP</u>
1		-20	-30-(-35)
2-4		-30	-35-(-40)
5		-20	-25-(-30)

PDO - Driving resistance after minimum tip elevations are achieved.

Waiting Period - 60 days on outside widening if 10 or more feet of fill is required.

Special Problem - Pre-drilling to Elevation 0 at Bents 1 and 5 will be required to achieve minimum tip elevations through the compacted fill.

Test Piles of sufficient length to reach an elevation five feet below estimated tip elevation.

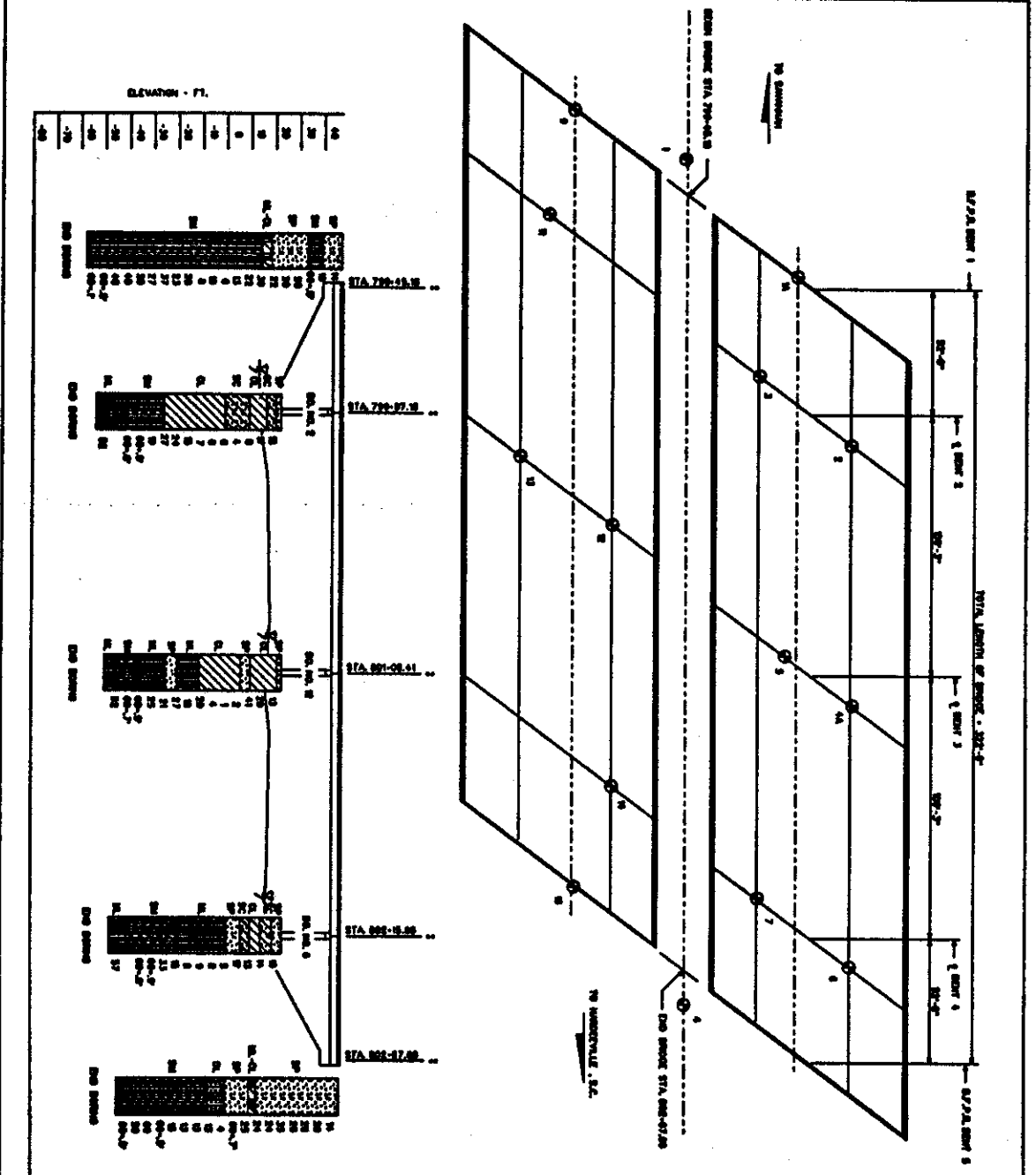
The Department of Transportation of New Hampshire  
in making this foundation report available to contractors  
assumes no responsibility for its accuracy.

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relies on this information in his bidding or  
in his construction operations and finds that  
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Reported By: Melvin D. Collins

Reviewed By: W. B. Bay P.E.



The Department of Transportation is not responsible for the accuracy of the data obtained from the boring logs. It is the responsibility of the contractor to verify the accuracy of the data and to provide the necessary information to the Department of Transportation. The Department of Transportation is not responsible for the accuracy of the data obtained from the boring logs. It is the responsibility of the contractor to verify the accuracy of the data and to provide the necessary information to the Department of Transportation.

DEPARTMENT OF TRANSPORTATION  
 BORING LOCATION & SOIL PROFILE  
 NH-95-1(124)  
 CHAMNH CO.  
 SCALE: 1" = 20' - 0"  
 11/88

NO.	DATE	DESCRIPTION
1	11/88	ISSUED FOR BIDDING

DEPARTMENT OF TRANSPORTATION  
OFFICE OF MATERIALS AND RESEARCH  
GEOTECHNICAL ENGINEERING

PROJECT: MH-95-1 (124) BR 49  
DESCRIPTION: WIDENING I-95 O/ S.R. 30/21 OVERPASS  
BORING LOCATION: 15' BACK FROM BENT LINE  
PARTY CHIEF: HOLLIS

COUNTY: 51 Chatham  
PI NUMBER: 511160  
BORING NO: 1  
GROUND ELEV.: 47 ft.  
DATE: 4/28/93  
BENT NO: 1  
WATER LEVEL: 0 ft.

ELEVATION	BORING LOG	SAMPLE NO.	BLOWS	UNIFIED	Y	W	Gs	Z200	ZCLAY	LL	PI	C
50												
	BORING ELEVATION = 47											
40	MED DSE BRN MED-F SLTY SD	1S	14	SP								
	MED DSE BRN CY SLTY SD	2S	18	SH								
30	V DSE GR MED-F SLTY SD	3S	60=.8'	SP								
	V DSE SAME	4S	58	SP								
20	MED DSE GR MED-F SLTY SD	5S	20	SP								
	MED DSE MLTC SDY CY SLT	6S	22	ML-CL								
10	DSE BRN MED-F SLTY SD	7S	39	SH								
	MED DSE BRN MED-F SLTY SD	8S	22	SH								
		9S	13	SH								

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DEPARTMENT OF TRANSPORTATION  
OFFICE OF MATERIALS AND RESEARCH  
GEOTECHNICAL ENGINEERING

PROJECT: NH-95-1 (124) BR 49  
DESCRIPTION: WIDENING I-95 O/ S.R. 30/21 OVERPASS  
BORING LOCATION: 15' BACK FROM BENT LINE  
PARTY CHIEF: HOLLIS

COUNTY: 51 Chatham  
PI NUMBER: 511160  
BORING NO: 1  
GROUND ELEV.: 47 ft.  
DATE: 4/28/93  
BENT NO: 1  
WATER LEVEL: 0 ft.

ELEVATION	BORING LOG	SAMPLE NO.	BLOWS	UNIFIED	Y	W	Gs	X200	XCLAY	LL	PI	C
0	MED DSE BRN MICAS SLTY F SD											
		10S	6	SH								
	LSE GR MICAS SLTY F SD											
		11S	10	SH								
-10	LSE SAME											
		12S	8	SH								
	LSE SAME											
		13S	20	SH								
-20	MED DSE GR MICAS F SDY SLT											
		14S	23	SH								
	MED DSE SAME											
		15S	37	SH								
-30	DSE GR MED-F SLTY SD											
		16S	27	SH								
	DSE GRN MICAS SDY SLT											
		17S	20	SH								
-40	MED DSE GRN MICAS SDY SLT											
		18S	40	SH								
	DSE GRN SAME											
		19S	40	SH								
-50												

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DEPARTMENT OF TRANSPORTATION  
OFFICE OF MATERIALS AND RESEARCH  
GEOTECHNICAL ENGINEERING

PROJECT: NH-95-1 (124) BR 49  
DESCRIPTION: WIDENING I-95 O/ S.R. 30/21 OVERPASS  
BORING LOCATION: 15' BACK FROM BENT LINE  
PARTY CHIEF: HOLLIS

COUNTY: 51 Chatham  
PI NUMBER: 511160 DATE: 4/28/93  
BORING NO: 1 BENT NO: 1  
GROUND ELEV.: 47 ft. WATER LEVEL: 0 ft.

ELEVATION	BORING LOG	SAMPLE NO.	BLOWS	UNIFIED	Y	W	Gs	X200	XCLAY	LL	PI	C
	DSE SAME											
	V DSE GRN MICAS SDY SLT	205	60=.8'	SM								
	ROD BOUNCES ON LIMEROCK END BORING @ 105'	215	60=.1'	SM								

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DEPARTMENT OF TRANSPORTATION  
OFFICE OF MATERIALS AND RESEARCH  
GEOTECHNICAL ENGINEERING

PROJECT: MH-95-1 (124) BR 49  
DESCRIPTION: WIDENING I-95 O/ S.R. 30/21 OVERPASS  
BORING LOCATION: 15' FWD FROM BENT LINE  
PARTY CHIEF: HOLLIS

COUNTY: 51 Chatham  
PI NUMBER: 511160  
BORING NO: 4  
GROUND ELEV.: 47 ft.  
DATE: 4/28/93  
BENT NO: 4  
WATER LEVEL: 0 ft.

ELEVATION	BORING LOG	SAMPLE NO.	BLOWS	UNIFIED	Y	W	Gs	Z200	ZCLAY	LL	PI	C
50												
	BORING ELEVATION = 47											
40	MED DSE BRN M-C CY SLTY SD	1S	14	SP								
	DSE GR MED-C SLTY SD	2S	29	SP								
30	DSE SAME	3S	26	SP								
	DSE BRN MED-F SLTY SD	4S	26	SP								
20	DSE BLK MED-F SLTY SD	5S	35	SP								
	MED DSE BRN MED-F SLTY SD	6S	24	SP								
10	V STF BRN SDY SLTY CLY	7S	24	ML-CL								
	DSE WH MED-F SLTY SD	8S	25	SP								
		9S	60=.7'	SP								

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DEPARTMENT OF TRANSPORTATION  
OFFICE OF MATERIALS AND RESEARCH  
GEOTECHNICAL ENGINEERING

PROJECT: NH-95-1 (124) BR 49  
DESCRIPTION: WIDENING I-95 O/ S.R. 30/21 OVERPASS  
BORING LOCATION: 15' FWD FROM BENT LINE  
PARTY CHIEF: HOLLIS

COUNTY: 51 Chatham  
PI NUMBER: 511160  
BORING NO: 4  
GROUND ELEV.: 47 ft.  
DATE: 4/28/93  
BENT NO: 4  
WATER LEVEL: 0 ft.

ELEVATION	BORING LOG	SAMPLE NO.	BLOWS	UNIFIED	Y	W	Gs	Z200	ZCLAY	LL	PI	C
0	V DSE WH SLTY F SD											
		10S	4	OL								
	V LSE GRN CY SLT											
-10	MED DSE GRN MICAS SDY SLT	11S	13	SH								
		12S	13	SH								
	MED DSE SAME											
-20	MED DSE GRN MICAS SLTY F SD	13S	13	SH								
		14S	15	SH								
	MED DSE SAME											
-30	V DSE GRN MICAS SLTY F SD	15S	60=.9'	SH								
		16S	60	SH								
	V DSE SAME											
-40	V DSE SAME	17S	59	SH								
		18S	60=.9'	SH								
	V DSE GRN MICAS SLTY F SD END BORING @ 92'											

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ILD.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. ST. 1270.00 COUNTY SOUTH DATE 4-20-71

LOCATION R.R. NO. 1617, ST. ROUTE 21, O.E. BORING NO. 1A

BENT NO. 1 FOOTING SP # GROUND ELEV. 22.4

PROPOSED FOOTING ELEV. 24.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	RLOW	REMARKS	W	γ	Cs	C	β	BC	LL	PI	% 200	% CLAY	e
	GG. EL. 2														
20	LOOSE SAND														
30	VED. STIFF MLTC. SANDY CLAY	18	20												
	NED. DENSE YELLOW	20	15												
10	CLAYEY SAND														
	VED. DENSE YELLOW SILTY SAND	30	15												
0	LOOSE (SAME)	46	0												
		60	12												
	NED. DENSE	66	10												
10	GREY SILTY SAND w/ CLAY LYS.		7												
20		75	26												
		86	14												
	VERY DENSE SAND w/ SILT LYS.	95	51												
30															
	DENSE GREEN SANDY SILT w/ SAND LYS.	103	27												
40		110	16												
	CONT.														

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11.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 1A CONT

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	Y	G <sub>s</sub>	C	φ	BC	LL	PI	% 200	% CLAY	°
	DENSE GREEN														
	SANDY SILT	125	45												
	✓ SAND LYBS.	130	49												
-50	END DRILLING														

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-25-1135125 COUNTY CHATTAHOOCHEE DATE 4-7-71

LOCATION SR NO 10 LT BORING NO. 2

BENT NO. 2 FOOTING 1T GROUND ELEV. 22.5

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM. PLE	BLOW	REMARKS	W	T	Gs	C.	Ø	BC	LL	PI	% 200	% CLAY
	GR. EL 7													
20	LOOSE SAND													
15	MED. DENSE RED CLAYEY SAND	19	15											
10	STIFF RED SANDY CLAY	25	17											
	LOOSE YELLOW-GREY CLAYEY SAND	30	8											
		40	4											
		50	6											
		60	6											
10	GREY SILTY CLAYEY SAND	70	7											
20		80	15											
		90	24											
	MED. DENSE - DENSE GREEN	100	27											
30	CLY. SILTY SAND	110	19											
	VERY DENSE GREEN SILTY SAND	125	60-90											
40														

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CONT.

HD.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 2 CONT \_\_\_\_\_

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	G <sub>s</sub>	C.	φ	BC	LL	PI	% 200	% CLAY	e
	VERY DENSE	134	60.8'												
	GREEN														
	SANDY SILT	43	52												
	END DRILLING														

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 95. 1 (33) 24 COUNTY CHATHAM DATE \_\_\_\_\_

LOCATION: BR NO 10 LT BORING NO. 3

BENT NO. 2 FOOTING RT GROUND ELEV. 21.5

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	T	G <sub>s</sub>	C.	φ	BC	LL	PI	% 200	% CLAY	°
	GR. EL. <u>2</u>														
20	LOOSE SAND														
	DENSE RED CLAYEY SAND	19	22												
10	LOOSE- MED. DENSE	23	6												
	RED-GREY	25	10												
0	CLAYEY SAND	43	19												
		53	8												
10	LOOSE DARK GREY SILTY SAND	63	8												
	CLAY LYBS.	78	8												
20		86	15												
	MED. DENSE GREEN SAND	96	20												
30		103	26												
	SILT LYBS.	118	27												
40	DENSE GREEN SANDY SILT	126	40												
	CONT.														

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. \_\_\_\_\_

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM. PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	°
135	VERY DENSE GREEN SILTY SAND	135	60.0												
145	END DRILLING	145	60												
150															
160															
170															
180															
190															
200															
210															
220															
230															
240															
250															
260															
270															
280															
290															
300															

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 25-1(35) 52 COUNTY CHATHAM DATE 4-6-71

LOCATION SR. NO. 19 LT. BORING NO. 4

BENT NO. 3 FOOTING LT GROUND ELEV. 22.5

PROPOSED FOOTING ELEV. 16.9 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM. FILE	BLOW	REMARKS	W	γ	G <sub>s</sub>	C	φ	BC	LL	PI	% 200	% CLAY	*
	GR. EL. 2														
20	LOOSE GREY SAND														
20	MED. DENSE GREY CLAYEY SAND	17	25												
	MED. STIFF GREY CLAY	23	8												
10	DENSE GREY CLAYEY SAND	30	34												
	SOFT GREY SANDY CLAY	48	4												
0	LOOSE GREY SAND W/ CLAY LYS.	65	2												
10	SOFT GREY SANDY CLAY	79	3												
	DENSE GREY SAND W/ CLAY	96	27												
20	MED. DENSE GREY SANDY SILT	109	21												
30	VERY DENSE GREY SILTY SAND	118	107												
40	VERY DENSE GREY SANDY SILT	139	57												

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 25-1 (SS) 22 COUNTY CHATHAM DATE 4-7-71

LOCATION SR. NO. 12 17 BORING NO. 5

BENT NO. 3 FOOTING R.T. OFFSET B' GROUND ELEV. 73.5

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	Y	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	°
	GR. EL. <u>7</u>														
	LOOSE SAND														
20	MED. DENSE GREY CLAYEY SAND	15	17												
30	STIFF YELLOW CLAY	20	16												
40	MED. DENSE GREEN CLAYEY SILTY SAND	30	23												
50	SOFT GREY SANDY CLAY	40	5												
60		50													
70		65	5												
80	MED DENSE	75	21												
90	GREEN	80	25												
100	CLAYEY	95	25												
110	SILTY SAND	105	15												
120		110	32												
130	VERY DENSE GREEN SANDY SILT CONT.	120	60-8'												

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. \_\_\_\_\_

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	•
	VERY CLAYEY	132	54												
	GREEN														
150	SANDY SILT	140	60-7'												
	END DRILLING														

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ILD-490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA  
 BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-25-1(25) SS COUNTY CHATHAM DATE 9-21-71  
 LOCATION SR NO 10 LT BORING NO. 6  
 BENT NO. 4 FOOTING LT GROUND ELEV. 23.3  
 PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	G <sub>s</sub>	C	φ	BC	LL	PI	% SAND	% CLAY
	GR. EL. 2													
20	GREY SAND													
23.5	MED. DENSE GREY SAND	16	18											
	CLAYEY SAND													
	MED STIFF YELLOW SILTY CLAY	23	14											
10	MED. DENSE YELLOW CLAYEY SAND	35	13											
	MED. DENSE GREY SAND	46	17											
0		55	5											
	LOOSE GREEN SANDY SILT	63	0											
10		85	8											
	MED. DENSE GREEN SILTY SAND	85	18											
20		105	28											
	DENSE													
30	VERY DENSE	110	60-80											
	(SAME)	125	60-80											
40														
	CONT													

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# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. \_\_\_\_\_

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	°	
50	VERY DENSE GREEN SANDY SILT	130	57													
	END DRILLING															

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11.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-95-1(35)52 COUNTY CHATHAM DATE 4-22-71

LOCATION SR. NO. 10, LT. BORING NO. 7

BENT NO. 4 FOOTING RT. GROUND ELEV. 22.4

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	T	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	e
	GR. EL. <u>7</u>														
20	LOOSE SAND														
18	DENSE GREY CLAYEY SAND	18	20												
15	STIFF YELLOW SILTY CLAY	23	15												
10	DENSE WHITE SAND	35	32												
5	SOFT GREY-GREEN SILTY CLAY	55	6												
10	MED. DENSE GREEN CLAYEY SANDY SILT	65	15												
75		75	10												
66		66	11												
55	LOOSE MED. DENSE GREEN SILTY SAND	85	9												
100		100	22												
115	VERY DENSE GREEN SILTY SAND	115	60.7												
125		125	60.8												
140	CONT.														

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ILD.450

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 27. 1 (25) 22 COUNTY CHATHAM DATE 6-21-71  
 LOCATION SR NO 10 RT BORING NO. 6  
 BENT NO. 1 FOOTING BRIDGE E GROUND ELEV. 22.2  
 PROPOSED FOOTING ELEV. 29.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	T	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	e
	GR. EL. /														
20	LOOSE SAND														
18.5	MED. DENSE SAND CLAYEY SAND	19	17												
17	MED. DENSE DENSE	24	23												
15.5	YELLOW SILTY SAND	26	29												
14	LOOSE GREY CLAYEY SAND	46	6												
12.5	LOOSE	55	9												
11	DARK GREY	66	6												
9.5	SILTY SAND	75	8												
8	CLAY LYRS.	85	12												
6.5		95	14												
5	DENSE SAND CLAY LYRS.	105	43												
3.5	MED. DENSE GREEN	115	26												
2	SANDY SILT	125	21												

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CONT.

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. \_\_\_\_\_

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM. PLE	BLOW	REMARKS	W	Y	G <sub>s</sub>	C.	$\phi$	BC	LL	PI	% 200	% CLAY	e
	VERY DENSE	135	60.7												
	SILTY														
.50	SAND	146	60.7												
	END DRILLING														

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HD.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 95-1155100 COUNTY CHATTAHOOCHEE DATE 4-22-71

LOCATION SR NO 10 RT BORING NO. 11

BENT NO. 2 FOOTING 2T OFFSET 5' GROUND ELEV. 21.5

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 300	% CLAY	e
	GR. EL. <u>2</u>														
20	LOOSE SAND														
	MED DENSE														
	RED														
	CLAYEY SAND	10	17												
	LOOSE														
		20	24												
10	MED. DENSE														
	YELLOW														
	DILTY SAND	36	8												
		46	7												
0	MED. DENSE														
	LOOSE														
	DARK GREY														
		60	4												
10	DILTY CLAYEY														
	SAND W/ OCC.														
	CLAY LYBS.	75	16												
		86	18												
20															
	DENSE -														
	VERY DENSE	96	50												
	SAND														
	W/ SILT	100	61												
30	LYBS.														
	HARD GREEN														
	SILT W/ SD. LYBS.	110	28												
	VERY DENSE														
	GREEN														
		125	44												
40	DILTY SAND														
	CONT.														

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11.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 115047

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	e
	VERY DENSE	136	60												
	GREEN														
	SANDY SILT	146	55												
	END DRILLING														

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11.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I-20-1135 SB COUNTY CHATTAHOOCHEE DATE 4-6-71

LOCATION BR NO. 10 RT BORING NO. 12

BENT NO. 3 FOOTING 17 GROUND ELEV. 22.0

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	G <sub>s</sub>	C.	σ	BC	LL	PI	% 200	% CLAY	e
	GR. EL. <u>7</u>														
	LOOSE SAND														
20	MED. STIFF GREY														
20	SILT. CLAY	16	13												
	MED. STIFF GREY														
	SANDY CLAY	25	20												
10	DEUSE SAND	23	41												
	SOFT														
	GREY														
	SANDY CLAY	54	1												
		64	4												
	LOOSE GREY	75	20												
	SANDY SILT	85	18												
20	DEUSE SANDY SILT. LYS.	86	27												
	MED. DEUSE GREEN	105	21												
30	SANDY SILT	115	25												
	VERY DEUSE GREEN	125	60.0												
40	SILT. SAND SOFT														

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HD490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 12 CONT.

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	$\gamma$	Gs	C.	$\phi$	BC	LL	PI	% 200	% CLAY	e
	VERY DENSE GREEN SILTY SAND	134	60.0												
	VERY DENSE GREEN SANDY SILT	148	52												
50	END DRILLING														

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H.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 55-1 (SS) 22 COUNTY CHATHAM DATE 4-6-71

LOCATION SR. NO. 10 RT. 22 BORING NO. 15

BENT NO. 3 FOOTING RT GROUND ELEV. 22.7

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	G <sub>s</sub>	C.	φ	BC	LL	PI	% 200	% CLAY	θ
	GR. EL. <u>22.7</u>														
	LOOSE SAND														
20	MED. STIFF														
GWT	GREY SANDY CLAY	15	17												
	MED. DENSE														
10	VERY DENSE	23	18												
	GREY CLAYEY SAND	25	23												
	SOFT	43	3												
0	GREY SANDY CLAY	55	5												
		65	6												
10	MED. DENSE	75	16												
	DENSE GREEN	85	13												
20	CLAYEY	85	38												
	SILTY	85	16												
30	SAND	115	26												
	VERY DENSE GREEN	120	58												
40	DILTY SAND CONT.														

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U.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 13 CONT

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLF	BLOW	REMARKS	W	Y	Gs	C.	$\phi$	BC	LL	PI	% 200	% CLAY	e
	VERY DENSE	135	54												
	GREEN														
	SILTY SAND	145	50												
130	END DRILLING														

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665

SLD.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT I. 50-1 (25) 25 COUNTY CLATHAM DATE 4.23.71

LOCATION SR NO. 10 RT BORING NO. 14

BENT NO. 4 FOOTING 17 GROUND ELEV. 23.3

PROPOSED FOOTING ELEV. 16.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	γ	Gs	C.	φ	BC	LL	PI	% 200	% CLAY	e
	GR. EL. <u>27</u>														
	LOOSE SAND														
20	MED. DENSE GREY CLAYEY SAND	19	16												
10	MED. STIFF GREY SANDY CLAY	25	11												
	DENSE WHITE SAND	35	21												
0	SOFT GREY SANDY CLAY	45	5												
	GREY SANDY CLAY	54	4												
		63	10												
10	MED. DENSE GREY	73	19												
	SILTY SAND	83	14												
20	MED. DENSE GREEN SILTY SANDY SILT LYS.	85	24												
	VERY DENSE GREEN	105	60.2												
30	GREEN SILTY SAND	110	60.8												
		120	54												
40	CONT.														

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11.D.490

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT \_\_\_\_\_ COUNTY \_\_\_\_\_ DATE \_\_\_\_\_

LOCATION \_\_\_\_\_ BORING NO. 14 CONT

BENT NO. \_\_\_\_\_ FOOTING \_\_\_\_\_ GROUND ELEV. \_\_\_\_\_

PROPOSED FOOTING ELEV. \_\_\_\_\_ PARTY CHIEF \_\_\_\_\_

ELEV.	BORING LOG	SAM- PLE	BLOW	REMARKS	W	$\gamma$	Gs	C.	$\phi$	BC	LL	PI	% 200	% CLAY	*
	VERY DENSE GREEN Micas	133	53												
	SANDY SILT	143	60-7												
50	END DRILLING														

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66 (58)

LD. 89

# STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF MATERIALS AND TEST, ATLANTA, GEORGIA

## BRIDGE SUBSURFACE INVESTIGATION

PROJECT T. 95-1 (23) 99 COUNTY COLUMBIA DATE 4-23-71

LOCATION SP. NO. 10 RT. BORING NO. 16

BENT NO. 2 FOOTING 22 S GROUND ELEV. 23.9

PROPOSED FOOTING ELEV. 22.0 PARTY CHIEF PRICE

ELEV.	BORING LOG	SAM. PLE	BLOW	REMARKS	W	Y	G <sub>s</sub>	C.	φ	BC	LL	PI	% 200	% CLAY	e
	GR. EL. 7														
	GREY SAND														
20	MED. DENSE YELLOW CLAYEY SAND	18	23												
	MED. STIFF YELLOW	26	14												
10	SILTY CLAY	36	12												
	DENSE WHITE SAND	45	34												
0		55	7												
	LOOSE GREEN SANDY SILT	63	9												
		73	11												
		83	10												
20	MED. DENSE GREY SILTY SAND	95	15												
		105	22												
30	VERY DENSE GREEN SILTY SAND	118	60.8												
		125	60.8												
40		135	60.7												

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



















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# CLASSIFICATION OF SOILS FOR REPORT PURPOSES

( UNIFIED CLASSIFICATION SYSTEM )

NAME	LETTER		NAME	LETTER	
WELL-GRADED SILTY SAND	SW-SM		CLAYEY SAND	SC	
WELL-GRADED SILTY GRAVEL	GW-GM		CLAYEY SAND, HIGH LIQUID LIMIT	SC-H	
WELL-GRADED GRAVEL	GW		SILTY SAND, HIGH LIQUID LIMIT	SM-H	
POORLY-GRADED GRAVEL	GP		ORGANIC SILT, LOW LIQUID LIMIT OR ORGANIC CLAY, LOW LIQUID LIMIT	OL	
SILTY GRAVEL	GM		INORGANIC SILT, LOW LIQUID LIMIT	ML	
CLAYEY GRAVEL	GC		INORGANIC SILTY LEAN CLAY	ML-CL	
CLAYEY SILTY GRAVEL	GM-GC		LEAN CLAY	CL	
WELL-GRADED SAND	SW		INORGANIC SILT, HIGH LIQUID LIMIT	MH	
POORLY-GRADED SAND	SP		ORGANIC CLAY, HIGH LIQUID LIMIT OR ORGANIC SILT, HIGH LIQUID LIMIT	OH	
POORLY-GRADED SILTY SAND	SP-SM		FAT CLAY	CH	
SILTY SAND	SM		PEAT	PT	
SILTY CLAYEY SAND	SM-SC		GROUND WATER LEVEL		

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