

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	ALA.	I-10-1(35)	1975	1	1054

STATE OF ALABAMA HIGHWAY DEPARTMENT

Plan and Profile of Proposed State Highway

PROJECT I-10-1 (35)28 PROP. "A"

EAST TUNNEL INTERCHANGE TO SPANISH FORT
(GRADE, DRAIN, BASE, PAVE, AND BRIDGES)

PROPOSAL "B" SIGNING
PROPOSAL "C" LIGHTING

MOBILE - BALDWIN COUNTIES

FOR INDEX SEE SHEET IA-1E

EXCEPTIONS

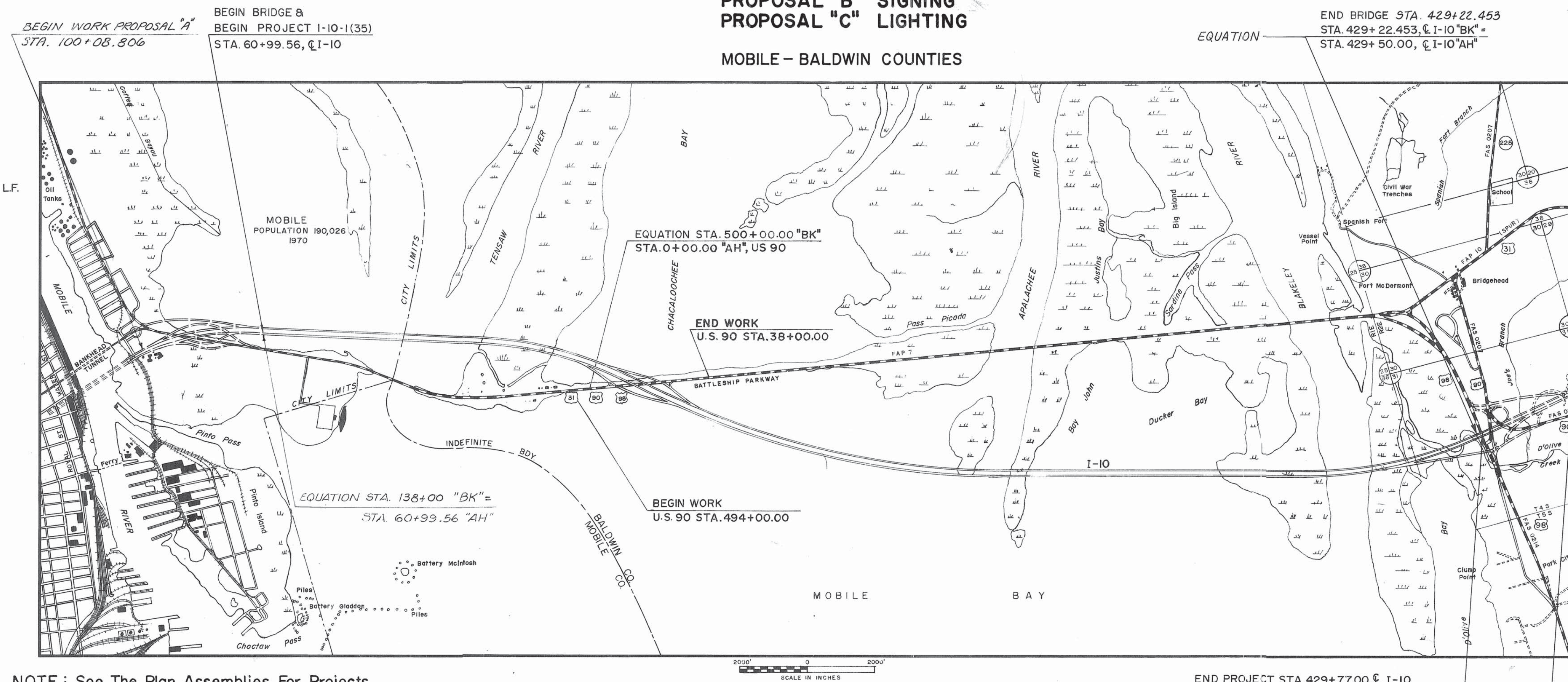
NONE

EQUATIONS

STA. 429+22.453, $\frac{1}{2}$ MEDIAN "BK" =
STA. 429+50.000, $\frac{1}{2}$ MEDIAN "AH" = -27.547 L.F.

BRIDGES

STA. 60+99.560 $\frac{1}{2}$ MEDIAN TO
STA. 429+22.453 $\frac{1}{2}$ MEDIAN



NOTE: See The Plan Assemblies For Projects
I-10-1(35)28, PROPOSAL "B"-SIGNING &
I-10-1(35)28, PROPOSAL "C"-LIGHTING
Which Are Included In The Proposal
For This Project.

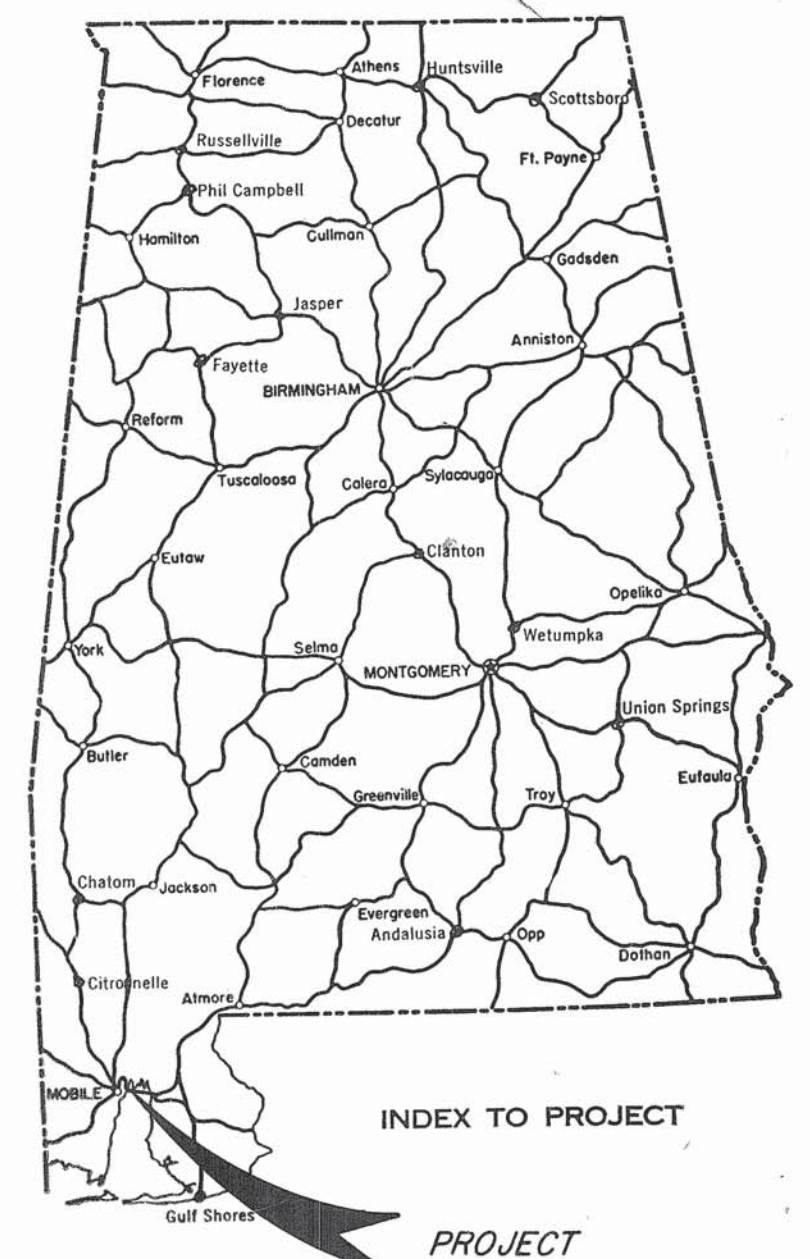
	TOTALS	
	LIN. FT.	MILES
*TOTAL STATIONING OF PROJECT	36,877.440	6.9843
EQUATIONS AND EXCEPTIONS	-27.547	0.0052
NET LENGTH OF PROJECT	36,849.893	6.9791
NET LENGTH OF BRIDGES	36,822.893	6.9740
NET LENGTH OF ROADWAYS	27.000	0.0051

*NOTE: CENTERLINE STATIONS WERE USED IN
DETERMINING THE PROJECT LENGTH.

PRELIMINARY PROJECT NO. I-10-1(99)-----
CODE NO. 36-010-001-099-110

CONVENTIONAL SIGNS

STATE AND NATIONAL LINE.....	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH.....	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLES
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	GROUND ELEVATION
RIGHT OF WAY LINE	GRADE ELEVATION
TRAVELED WAY	
RAILROADS	
RETAINING WALL	
BASE OR SURVEY LINE.....	



TRAFFIC DESIGNATION

PROJECT I-10-1(35)

	LOW	HIGH
ADT (1974)	23,780	27,600
ADT (1994)	41,400	47,710
D = 65%	DHV = 10%	
T = 7%		
V = 70 M.P.H. DESIGN SPEED		
STOPPING SIGHT DISTANCE 600' MIN		

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM
WITH ALABAMA HIGHWAY DEPARTMENT STANDARD
SPECIFICATIONS DATED, 1964, AND SUPPLEMENT
NO. 1 REVISED

SUBMITTED FOR APPROVAL

Ray O. Barr
HIGHWAY DIRECTOR
STATE HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ENGINEER DATE



PREPARED AND RECOMMENDED BY
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS
APPROVED *T. Keith King* DATE 6/14/74

FED. RD. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	ALA.	1-10-1(35)	1975	1048	1054

EQUATION:
STA. 136+20.54 BACK=
STA. 60+99.56 AHEAD
BEGIN PROJ. 1-10-1(35)

BORING LOCATIONS					
BORING DESIGNATION	SYMBOL	STATION	OFFSET 1-10	SOURCE OF LOGS	EST. DEPTH
D-14	⊗	127+28*	4' LT.	LOG TAKEN FROM PROJ. 1-10-1(34)	-92'
D-15	⊗	130+76*	1-10	"	-102'
B-28	⊗	67+50	200' RT.	EUSTIS ENGINEERING CO. 1933	-80'
B-27	⊗	92+00	850' LT.	"	-75'
B-29	⊗	102+00	1550' RT.	"	-100'
B-26	⊗	117+00	1800' LT.	"	-150'
B-30	⊗	126+50	600' RT.	"	-85'
B-51	⊗	139+00	3000' RT.	"	-80'
B-31	⊗	149+50	600' LT.	"	-85'
B-50	⊗	166+50	1500' RT.	"	-85'
B-32	⊗	168+00	2200' LT.	"	-90'
B-49	⊗	186+00	250' LT.	"	-85'
B-53	⊗	202+00	1700' RT.	"	-85'
B-48	⊗	208+00	2000' LT.	"	-150'
B-54	⊗	223+00	150' RT.	"	-100'
B-55	⊗	243+00	1050' LT.	"	-110'
B-68	⊗	255+00	1350' RT.	"	-110'
B-50	⊗	268+50	2150' LT.	"	-95'
B-67	⊗	278+50	350' RT.	"	-95'
B-66	⊗	301+50	400' LT.	"	-95'
B-65	⊗	328+00	1250' LT.	"	-150'
B-64	⊗	353+00	2050' LT.	"	-75'
B-70	⊗	361+00	500' RT.	"	-75'
B-71	⊗	383+00	200' LT.	"	-75'
B-72	⊗	410+00	500' LT.	"	-75'
B-73	⊗	429+00	400' LT.	"	-75'
S-1	⊗	110+00	1-10	ALABAMA HIGHWAY DEPT.	-116.5'
S-2	⊗	165+00	1-10	"	-106.5'
S-3	⊗	205+00	1-10	"	-106.5'
S-4	⊗	249+50	1-10	"	-106.5'
S-5	⊗	330+00	1-10	"	-101.5'
S-6	⊗	419+50	50' RT.	"	-90.5'

* Based On Project
1-10-1(34) Stationing

NOTES:

- Borings B-1 Through B-73 Were Performed By Eustis Engineering Co. During July And August 1963. Borings On Or Near The Alignment Have Been Shown On This Plan And Their Logs Are Reproduced On The Accompanying Profile Sheets.
- Borings S-1 Through S-6 Were Performed By A.M.D. During November Of 1969 To Provide Supplemental Data Along The Alignment.
- D-14, D-15 Borings Obtained From Project 1-10-1(34) East Tunnel Interchange.

APPROVED:

CHIEF ENGINEER
DESIGN ENGINEER
CHECKED
BRIDGE ENGINEER

Scale: 1"= 1000'

REVISIONS

STATE OF ALABAMA
HIGHWAY DEPARTMENT

BORING PLAN

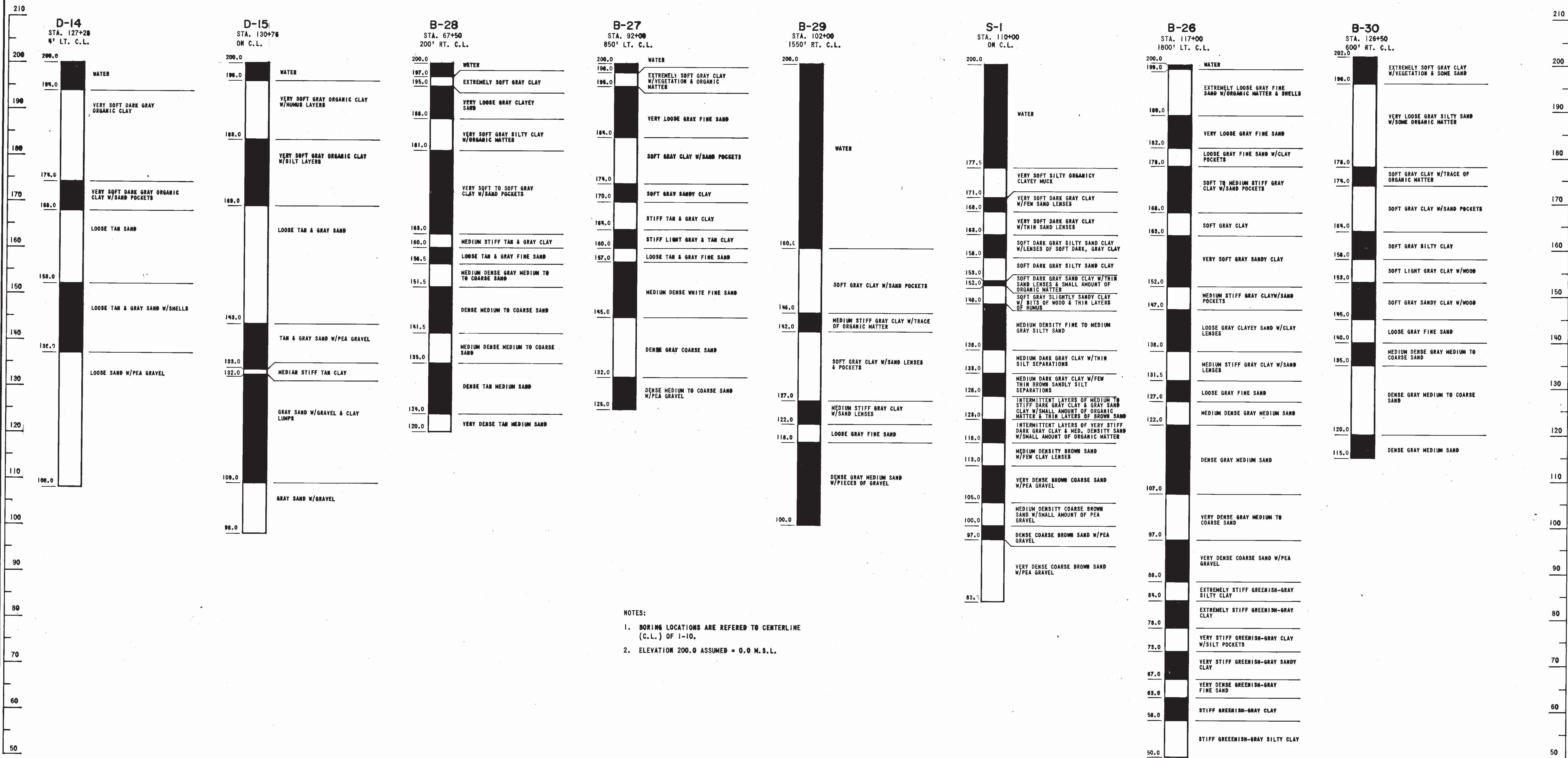
DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED
CHECKED
DATE June, 1974

TRACED

CHECKED

CHECKED



STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-10-1(35)
INTERSTATE ROUTE I-10
MOBILE BAY CROSSING
MOBILE - BALDWIN COUNTIES, ALABAMA

BORING LOGS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	DATE	DETAILS	T.W.N.	TRACED
CHECKED	DATE	CHECKED	A.R.L.	CHECKED

APPROVED:

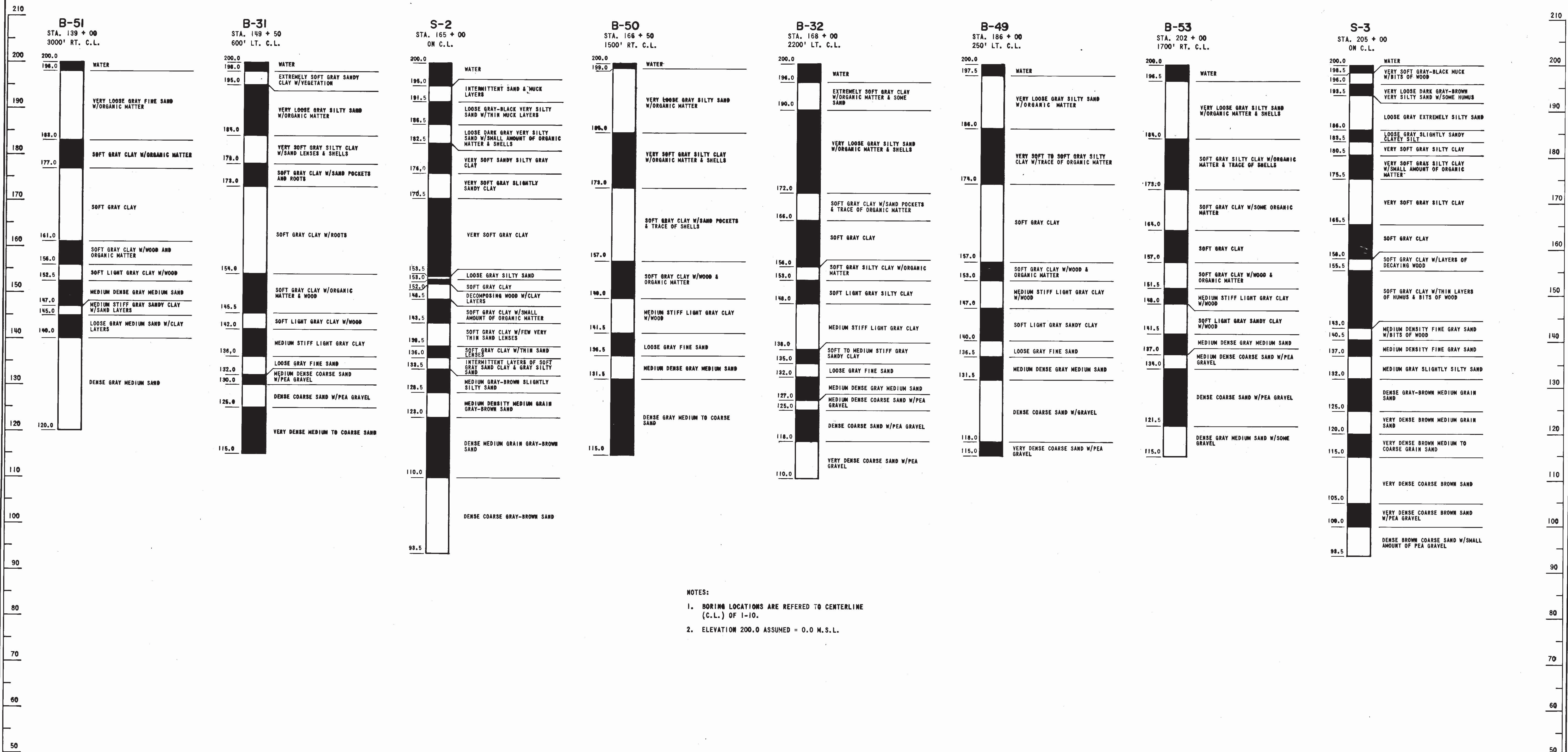
CHIEF ENGINEER
BRIDGE ENGINEER

REVISIONS

DATE June 1974

DWG. NO.

FED. RD. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	ALA.	I-10-(135)	1975	1050	1054



STATE OF ALABAMA HIGHWAY DEPARTMENT

PROJECT NO. I-10-(135)
INTERSTATE ROUTE I-10
MOBILE BAY CROSSING
MOBILE - BALDWIN COUNTIES, ALABAMA

BORING LOGS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	DATE	DETAILED	DATE	QUANTITIES	DATE
CHECKED	DATE	CHECKED	DATE	CHECKED	DATE

DATE June 1974

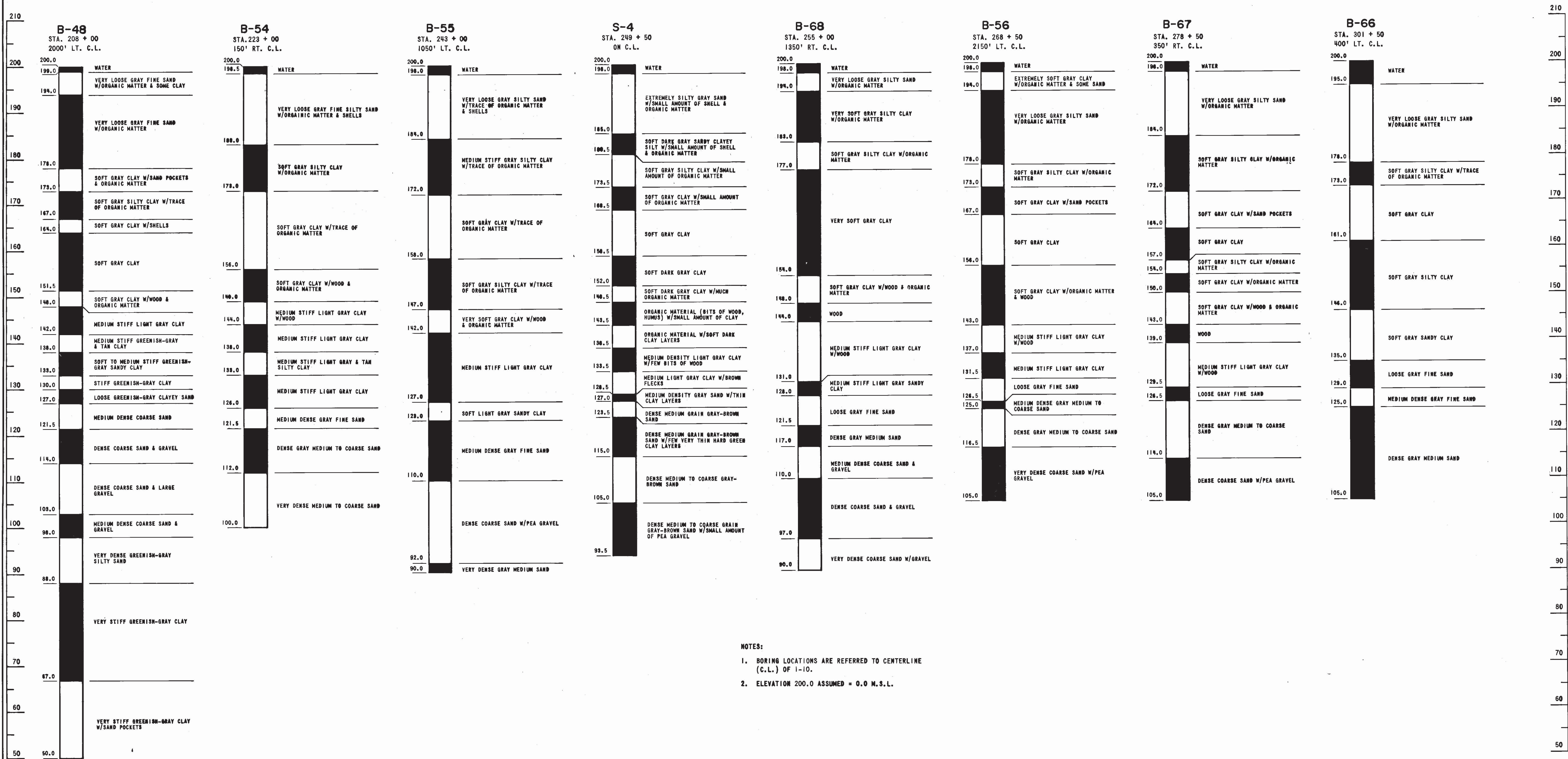
DWG. NO.

REVISIONS

APPROVED:

CHIEF BRIDGE DESIGNER
BRIDGE ENGINEER

FED. RD. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	ALA.	1-10-1(35)	1975	1051	1054



STATE OF ALABAMA HIGHWAY DEPARTMENT

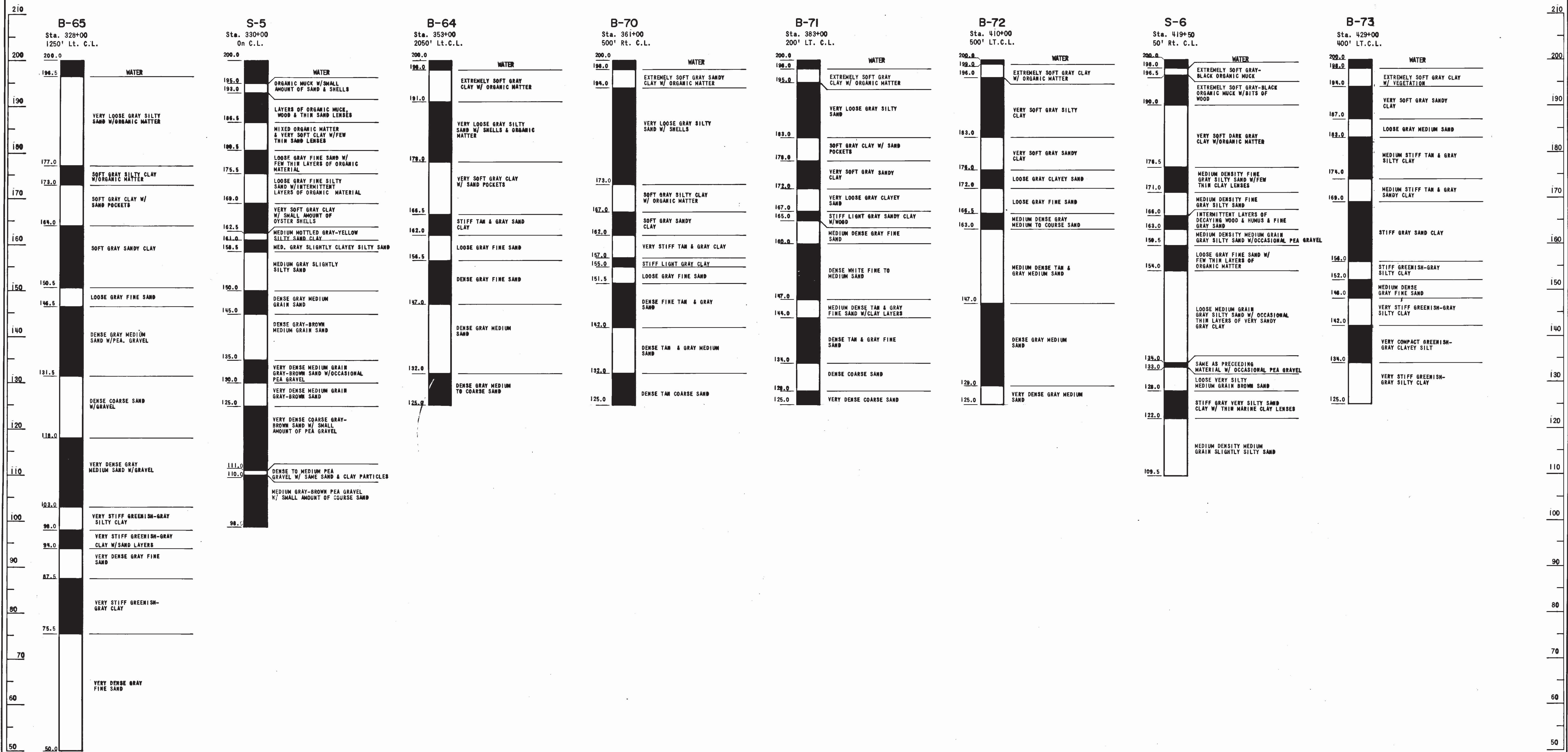
PROJECT NO. I-10-1(35)
INTERSTATE ROUTE I-10
MOBILE BAY CROSSING
MOBILE - BALDWIN COUNTIES, ALABAMA

BORING LOGS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

DESIGNED	DATE	DETAILED	T.W.N.	QUANTITIES
CHECKED	June 1974	CHECKED	A.R.L.	CHECKED

APPROVED:	
CHIEF ENGINEER	
BRIDGE ENGINEER	
DESIGNED	
CHECKED	
DATE	June 1974
REVISIONS	
DWG. NO.	



- NOTES:
- Boring Locations Are Referred To Centerline (C.L.) Of I-10
 - Elevation 200.0 Assumed = 0.0 M.S.L.

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-10-1(35)
INTERSTATE ROUTE I-10
MOBILE BAY CROSSING
MOBILE - BALDWIN COUNTIES, ALABAMA

BORING LOGS

DAVID VOLKERT & ASSOCIATES
CONSULTING ENGINEERS

APPROVED:			
DESIGNED		CHECKED	
CHECKED		DATE	
REVISIONS			

DESIGNED	DATE	DESIGNED	DATE	QUANTITIES	DATE
CHECKED	DATE	CHECKED	DATE	CHECKED	DATE

DATE June 1974

DWG. NO.

ELEV. DEPTH	DESCRIPTION #5	N	CR	S	REMARKS
199.0 0.0	Sta. 82+00 C/L				
195.0 5.0	Water				
190.0 10.0	Very loose wet gray very fine silt sand w/ shell fragments & org. mat.	13	2	2	Sample #8-B
185.0					
180.0					
175.0		22	9	2	Sample #8-C
170.0					
165.0		27	1		Sample #8-D
160.0					
155.0	Very loose wet gray clayey silt w/ shell fragments				Sample #8-E
150.0					Sample #8-F
145.0					Sample #8-G
140.0					
135.0					
130.0	Med. to stiff wet gray sand clay w/ thin clay lenses	44	3	9	
125.0		45	8	32	
120.0	Dense wet yellow fine to med. grain sand	53	5	8	
115.0					
110.0	Very dense wet white sand	58	3	4	
105.0					
100.0					
95.0					
90.0	Med. wet white sand	68	1	7	
85.0					
80.0	Med. wet gray sand w/ thin clay lenses	73	5	0	
75.0					
70.0					
65.0					
60.0					
55.0	Very dense wet white sand w/ small amt. of organic matter	78	5	0	
50.0					
45.0	Very dense wet white sand w/ large 1" size gravel	82	5	0	
40.0					
35.0	Hard wet gray clay gravel	85	5	0	
30.0					
25.0	Hard damp green marine clay	92	3	4	
20.0					

ELEV. DEPTH	DESCRIPTION #7	N	CR	S	REMARKS
200.0 0.0	Sta. 126+00 C/L				
195.0	Water				Sample #7-A
190.0	Soft wet black clayey silt	9	2		Sample #7-B
185.0					Sample #7-C
180.0	Loose wet gray silty sand clay	14	3		Sample #7-D
175.0		19	2		Sample #7-E
170.0	Loose wet gray silty sand	24	2		Sample #7-F
165.0	Soft wet gray silty sand w/ clay lenses	29	3		Sample #7-G
160.0					Sample #7-H
155.0	Soft wet gray clay w/ sand lenses				Sample #7-I
150.0	Med. wet gray sand clay w/ organic matter				Sample #7-J
145.0	Med. wet gray clay w/ organic matter				
140.0					Lost sample
135.0					
130.0	Med. wet white sand	60	2	2	
125.0		65	2	6	
120.0					
115.0					
110.0					
105.0					
100.0					
95.0					
90.0					
85.0	Med. wet white coarse grain sand	70	2	1	
80.0					
75.0	Dense wet white sand	75	2	8	
70.0					
65.0					
60.0					
55.0					
50.0					
45.0					
40.0					
35.0					
30.0					
25.0					
20.0					
15.0					
10.0					
5.0					
0.0					

ELEV. DEPTH	DESCRIPTION #6	N	CR	S	REMARKS
200.0 0.0	Sta. 143+00 C/L				
195.0	Water				Sample #6-A
190.0	Loose wet black & gray silt				Sample #6-B
185.0					
180.0	Loose wet black & gray silty sand w/ organic matter				Sample #6-D
175.0	Loose wet black & gray silty sand w/ organic matter & oyster shells				Sample #6-E
170.0	Loose wet gray sand w/ clay lenses & organic matter				Sample #6-F
165.0					Sample #6-G
160.0	Soft wet gray clay w/ sand lenses & organic matter				Sample #6-H
155.0					Sample #6-I
150.0	Soft moist gray clay				Sample #6-J
145.0	Med. moist gray sandy clay				Sample #6-K
140.0	Stiff damp brown organic clay				Sample #6-L
135.0	Stiff wet gray sand clay w/ organic matter	59	7	14	
130.0		64	7	20	
125.0	Med. wet brown sand	69	7	24	
120.0		74	7	22	
115.0					
110.0					
105.0					
100.0					
95.0					
90.0					
85.0					
80.0					
75.0					
70.0					
65.0					
60.0					
55.0					
50.0					
45.0					
40.0					
35.0					
30.0					
25.0					
20.0					
15.0					
10.0					
5.0					
0.0					

ELEV. DEPTH	DESCRIPTION #5	N	CR	S	REMARKS
200.0 0.0	Sta. 266+00 C/L				
195.0	Water				Sample #5-A
190.0					Sample #5-B
185.0	Loose wet black & gray very silty sand w/ organic matter	11	5	2	Sample #5-D
180.0					Sample #5-E
175.0					Sample #5-G
170.0	Soft wet black & gray clayey silt w/ organic matter				Sample #5-H
165.0	Soft wet gray silty clay w/ organic matter				Sample #5-I
160.0					Sample #5-J
155.0					Sample #5-K
150.0					Sample #5-L
145.0	Stiff very moist gray clay				Sample #5-M
140.0					Sample #5-N
135.0	Stiff slightly moist gray organic clay w/ organic wood				Sample #5-O
130.0	Very stiff wet gray clay w/ organic matter				Sample #5-P
125.0					Sample #5-Q
120.0					Sample #5-R
115.0					Sample #5-S
110.0					
105.0					
100.0					
95.0					
90.0					
85.0					
80.0					
75.0					
70.0					
65.0					
60.0					
55.0					
50.0					
45.0					
40.0					
35.0					
30.0					
25.0					
20.0					
15.0					
10.0					
5.0					
0.0					

SPECIAL NOTE: SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IT IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THIS PROJECT.

N-15 PENETRATION IN BLOWS PER FOOT (ASTM D-1586)

5 CR-15 IS % CORE RECOVERY, NX OR AX DESIGNATES BIT SIZE (ASTM D-2113)

S - SYMBOLS DESCRIBED BELOW:

- UNDISTURBED SAMPLE (ASTM D-1587)

- WATER TABLE, TIME OF BORING

- WATER TABLE, 24 HOUR READING

- LOSS OF DRILLING FLUID

BRIDGE SHEET NO. OF REVISIONS		STATE OF ALABAMA HIGHWAY DEPARTMENT	
		PROJECT NO. I-10-1(35) INTERSTATE ROUTE 1-10 MOBILE BAY CROSSING MOBILE - BALDWIN COUNTIES, ALABAMA	
		TEST BORING RECORD	
APPROVED:	SCALE:	DESIGNED:	QUANTITIES
CITY ENGINEER		DRAWN:	DATE
BRIDGE ENGINEER		TRACED:	June 1974
		CHECKED:	

FED. RD. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	ALA.	I-10-1(35)	1975	1054	1054

ELEV. DEPTH	DESCRIPTION	#4	N CR S	REMARKS
200.0 0.0	Sta. 285+00 C/L			
9.0	Water			
15.0	Loose wet brown sandy silt			
20.0	Loose wet gray sandy silt w/ small amt. of clay			
25.0	Loose wet gray clayey silty sand			Sample #4-C
				Sample #4-D
				Sample #4-E
				Sample #4-F
39.0	Med. moist gray clay			Sample #4-G
				Sample #4-H
49.0	Med. moist gray sandy clay			Sample #4-I
59.0	Med. moist gray clay w/ very large amt. of organic matter			Sample #4-J
65.0	Med. moist gray clay w/ small amt. of organic wood			Sample #4-K
130.0 70.0	Stiff moist gray clay			
		74.6 35		
80.0	Dense moist brownish-gray clayey sand	75.6 41		
85.0	Dense moist brown sand w/ pea gravel	83.6 50		
90.0	Very dense moist brown sand w/ pea gravel	89.6 33		
92.2	Dense moist brown sand w/ pea gravel	98.6 38		
100.1	Hard damp green marine clay	98.6 46		
	Note: Saved Sample #4-Q clay sample from p. tube for possible soil analysis.			
	Note: Lost p. tube stripped off in hole.			

ELEV. DEPTH	DESCRIPTION	#3	N CR S	REMARKS
200.0 0.0	Sta. 310+00			
5.5	Water	5.5 2		Sample #3-A
14.7	Soft wet black silt	14.7 2		Sample #3-B
19.7	Loose wet gray sandy silt w/ organic matter	19.7 2		Sample #3-C
29.0	Soft wet gray clayey silt w/ organic matter	29.7 2		Sample #3-D
				Sample #3-E
				Sample #3-F
39.0	Soft wet gray clay			Sample #3-G
45.0	Soft wet gray clay w/ sand lenses			Sample #3-H
49.7	Soft wet gray clay w/ org. matt.			Sample #3-I
				Sample #3-J
				Sample #3-K
				Sample #3-L
69.0	Soft wet gray clay w/ sand lenses			Sample #3-M
74.0	Med. wet brown & gray clayey sand w/ pea gravel	74.7 17		
		79.7 23		
84.7	Med. wet brown sand	84.7 41		
89.7	Dense wet brown sand	89.7 24		
95.1	Med. wet brown sand w/ pea gravel	94.7 26		
96.2	Hard damp green marine clay			

ELEV. DEPTH	DESCRIPTION	#2	N CR S	REMARKS
200.0 0.0	Sta. 346+00			
3.0		3 2		Sample #2-A
9.7		9.7 2		
14.7		14.7 2		
19.7		19.7 2		
24.7	Very loose wet gray silty sand			Sample #2-D
29.7	Soft wet gray clay w/ sand lenses			Sample #2-E
36.0	Soft wet gray clay			Sample #2-F
41.0	Stiff moist brown clay			Sample #2-G
		44.7 20		
		49.7 26		
54.0	Med. wet brown & gray fine sand	54.7 32		
		59.7 36		
64.0	Dense wet brown med. grain sand	64.7 30		
69.0	Dense wet brown med. grain sand w/ pea gravel	69.7 50		
74.0	Very dense wet brown sand w/ a large amt. of pea gravel	74.7 39		
79.0	Dense wet brown pea gravel w/ sand	79.7 43		
83.0	Dense wet brown & gray sand	84.7 22		
89.0	Med. wet gray clayey sand	89.7 50		
93.0	Very hard moist gray clay	94.7 50		
		99.7 50		
107.0	Very dense wet gray sand w/ thin layers of clay	109.7 50		
113.0	Very dense very moist gray sand	114.7 44		
116.2	Hard damp green marine clay			
	Note: Saved a sample out of tube at 114.7' for possible soil analysis.			

ELEV. DEPTH	DESCRIPTION	#1	N CR S	REMARKS
200.0 0.0	Sta. 394+50 C/L			
2.0	Water	2 2		Sample #1-A
13.5	Loose wet gray silty sand	13.7 2		Sample #1-B
				Sample #1-C
				Sample #1-D
24.0	Soft wet gray silty clay			Sample #1-E
				Sample #1-F
				Sample #1-G
40.0	Soft wet gray silty clay w/ sand lenses	39.7 17		
		44.7 20		
54.0	Medium wet brown sand	54.7 34		
59.0	Dense wet brown sand	59.7 21		
64.0	Med. wet brown sand	64.7 50		
69.0	Very dense wet brown fine sand	69.7 50		
		74.7 50		
79.0	Very dense wet brown coarse grain sand w/ pea gravel	79.7 46		
		84.7 43		
		89.7 50		
94.0	Dense wet white sand	94.7 31		
98.0	Dense wet gray & brown sand w/ layers of clay	99.7 32		
101.2	Hard damp green marine clay			
	Note Sta. 395+00			

SPECIAL NOTE: SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IT IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THIS PROJECT.

N-15 PENETRATION IN BLOWS PER FOOT (ASTM D-1586)

5 CR-15 % CORE RECOVERY, NX OR AX DESIGNATES BIT SIZE (ASTM D-2113)

S - SYMBOLS DESCRIBED BELOW:

W - UNDISTURBED SAMPLE (ASTM D-1587)

W - WATER TABLE, TIME OF BORING

W - WATER TABLE, 24 HOUR READING

W - LOSS OF DRILLING FLUID

BRIDGE SHEET NO. OF REVISIONS		STATE OF ALABAMA HIGHWAY DEPARTMENT	
		PROJECT NO. I-10-1(35) INTERSTATE ROUTE I-10 MOBILE BAY CROSSING MOBILE-BALDWIN COUNTIES, ALABAMA	
TEST BORING RECORD			
APPROVED:	SCALE:	DESIGNED:	QUANTITIES
CHIEF BRIDGE DESIGN ENGINEER		DRAWN:	DATE
BRIDGE ENGINEER		TRACED:	June 1974
		CHECKED:	