

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		110394	50	196
				06830		SOIL BORINGS	41962	

BORING LEGEND (continued)

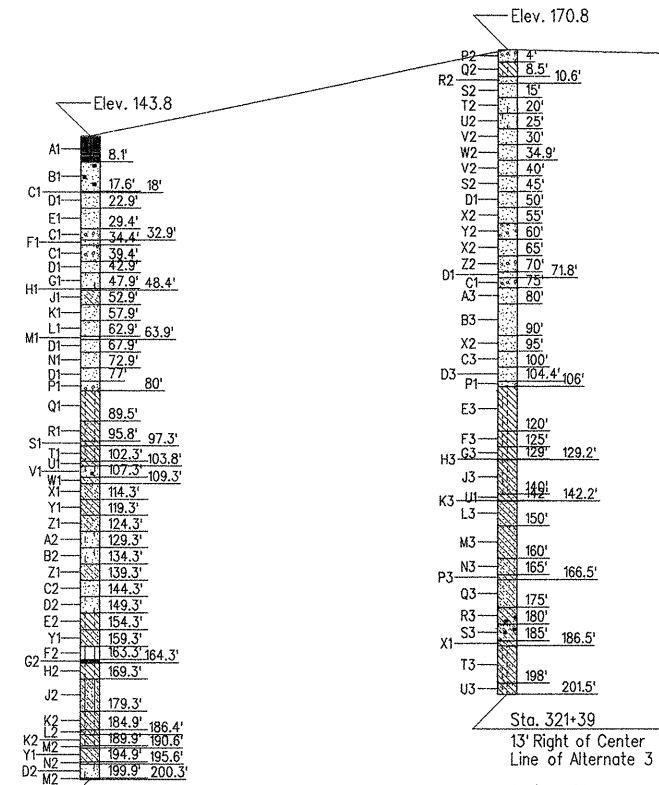
T2-Wet, Loose, Brown Silty Sand
U2-Wet, Loose, Brown Silty Sand with Traces of Gravel and Clay Seams
V2-Wet, Medium Dense, Brown Sand with some Gravel
W2-Wet, Medium Dense, Brown Sand
X2-Wet, Medium Dense, Gray Sand with Traces of Gravel
Y2-Wet, Medium Dense, Gray Sand and Gravel with some Lignite
Z2-Wet, Medium Dense, Gray Sand and Gravel with Traces of Clay Seams
A3-Wet, Dense, Gray Sand with some Gravel
B3-Wet, Dense, Gray Sand
C3-Wet, Very Dense, Gray Sand
D3-Wet, Dense, Gray Sand with Traces of Gravel and Lignite
E3-Moist, Very Stiff, Gray Silty Clay with Shells
F3-Moist, Hard, Gray Silty Clay with some Gravel and Cemented Silt Seams
G3-Moist, Very Stiff, Gray Silty Clay with Shells, Traces of Organic Matter and Thin Cemented Silt Seams
H3-Hard, Gray Cemented Silt
J3-Moist, Very Stiff, Gray Clay with Silt and Sand Lenses and some Gravel
K3-Hard, Gray Cemented Silt with some Gravel
L3-Moist, Very Hard, Gray Clay with Sand Seams, some Lignite and Thin Cemented Silt Seams
M3-Wet, Hard, Gray Clay with Sand Seams
N3-Wet, Very Dense, Gray Sand with Clay and some Thin Cemented Silt Seams
P3-Moist, Very Stiff, Gray Clay with Sand Seams
Q3-Wet, Dense to Very Dense, Gray Sand with Clay Seams
R3-Moist, Hard, Gray Clay with Sand Seams and Organic Matter (Wood)
S3-Wet, Very Dense, Gray Sand with Clay Seams and Organic Matter
T3-Moist, Hard, Gray Silty Clay with some Lignite
U3-Moist, Very Hard to Hard, Gray Silty Clay with some Lignite
V3-Moist, Medium Dense, Brown Silty Silt with Clay Seams
W3-Wet, Very Loose, Brown Silty Sand
X3-Wet, Medium Dense, Brown Silty Sand with Clay Seams
Y3-Wet, Loose, Brown Sand with some Organic Matter and Traces of Gravel
Z3-Wet, Loose, Brown Sand with Traces of Gravel
A4-Wet, Medium Dense, Brown Sand with Lignite and Traces of Gravel
B4-Wet, Loose, Brown Sand and Gravel
C4-Wet, Medium Dense, Gray Sand with Lignite
D4-Wet, Very Dense, Gray Sand with Traces of Gravel
E4-Wet, Dense, Gray Sand and Gravel
F4-Wet, Very Dense, Gray Sand and Gravel with Thin Siltstone Seams
G4-Hard, Gray Siltstone
H4-Moist, Very Stiff, Gray Clay with Silt and Sand Lenses and Shells
J4-Moist, Very Stiff, Gray Clay with Silt and Sand Lenses
K4-Moist, Very Stiff, Gray Clay with Silt and Sand Lenses and Traces of Lignite
L4-Moist, Very Stiff, Gray Clay with Silt and Sand Lenses, Shells and Traces of Lignite
M4-Moist, Very Stiff, Gray and Brown Clay with Silt and Sand Lenses and some Thin Siltstone Seams
N4-Wet, Very Stiff, Gray Silty Clay
P4-Wet, Very Dense, Gray Sand with Clay Seams and Lignite
Q4-Wet, Loose, Brown Sand
R4-Wet, Medium Dense, Gray Sand with some Clay Seams
S4-Wet, Very Stiff, Gray Silty Clay
T4-Wet, Dense, Gray and Brown Sand and Gravel
U4-Moist, Hard, Gray Clay with Silt and Sand Lenses and Shells
V4-Moist, Hard to Very Hard, Gray Clay with Silt and Sand Lenses and Thin Cemented Silt Seams
W4-Moist, Very Dense, Gray Lignitic Sand with some Clay Seams
X4-Moist, Hard, Gray Clay with Silt and Sand Lenses and Thin Cemented Silt Seams
Y4-Moist, Very Hard, Gray Clay with Silt and Sand Lenses and Traces of Lignite
Z4-Moist, Medium Dense, Brown Clay with Sand Seams
A5-Moist, Loose, Brown Silty Sand
B5-Wet, Medium Dense, Brown and Gray Sand with Traces of Clay Seams
C5-Wet, Medium Dense, Brown and Gray Sand
D5-Wet, Loose, Brown and Gray Sand with some Lignite
E5-Wet, Medium Dense to Dense, Brown and Gray Sand
F5-Wet, Medium Dense, Gray Sand with some Gravel and Traces of Lignite
G5-Wet, Medium Dense, Gray Sand and Gravel with Traces of Clay and Lignite
H5-Hard, Gray Cemented Sand

BORING LEGEND

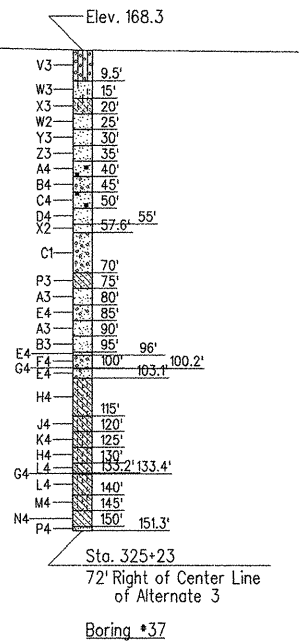
A1-Moist, Stiff, Black and Gray Organic Matter
B1-Wet, Loose to Medium Dense, Gray Sand with Organic Matter
C1-Wet, Medium Dense, Gray Sand and Gravel
D1-Wet, Medium Dense, Gray Sand
E1-Wet, Medium Dense, Gray Sand with some Gravel
F1-Wet, Medium Dense, Gray Sand with some Organic Matter
G1-Wet, Loose, Gray Silty Sand
H1-Wet, Loose, Gray Sand with some Gravel
J1-Wet, Medium Dense, Gray Sand with Clay Seams
K1-Wet, Dense, Gray Sand with some Lignite
L1-Wet, Medium Dense, Gray Sand with Traces of Lignite
M1-Wet, Medium Dense, Gray Silty Sand with Traces of Clay and Organic Matter
N1-Wet, Dense, Gray Sand with some Gravel and Traces of Lignite
P1-Wet, Very Dense, Gray Sand and Gravel
Q1-Moist, Very Stiff, Gray Silty Clay
R1-Moist, Very Stiff, Gray Silty Clay with Shells
S1-Wet, Hard, Gray Silty Clay
T1-Moist, Hard, Gray Clay with Silt and Sand Lenses
U1-Moist, Hard, Gray Clay with Sand Seams
V1-Wet, Dense, Gray Silty Sand with Lignite and some Clay Seams
W1-Wet, Very Dense, Gray Sand with Clay Seams and some Lignite
X1-Wet, Very Dense, Gray Sand with Clay Seams
Y1-Moist, Very Hard, Gray Clay with Sand Seams
Z1-Wet, Very Dense, Gray Clayey Sand
A2-Wet, Very Dense, Gray Silty Sand
B2-Moist, Very Dense, Gray Silty Sand with some Clay Seams
C2-Wet, Very Dense, Gray Sand with some Clay Seams and Lignite
D2-Moist, Very Dense, Gray Silty Sand
E2-Moist, Very Hard, Gray Clay with Silt Seams
F2-Moist, Very Dense, Gray Silt with some Clay Seams
G2-Hard, Dark Brown Lignite with some Clay Seams
H2-Moist, Very Hard, Gray Silty Clay with Traces of Lignite
J2-Moist, Very Dense, Gray Silty Clay with Clay Seams
K2-Moist, Very Hard, Gray Silty Clay
L2-Moist, Very Hard, Gray Silty Clay with some Lignite
M2-Moist, Very Dense, Gray Sand
N2-Moist, Very Dense, Gray Sand with Clay Seams
P2-Moist, Medium Dense, Brown Sand and Gravel
Q2-Moist, Stiff, Brown and Gray Silty Clay with some Organic Matter
R2-Moist, Medium Dense, Brown Sand
S2-Wet, Loose to Medium Dense, Brown Sand

SOIL BORINGS & "N" VALUES

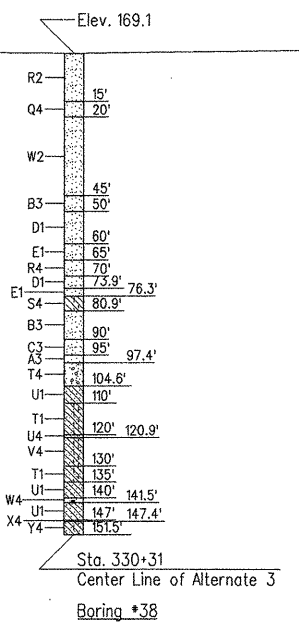
NOTE: ORGANIC MATTER AND LIGNITE WERE ENCOUNTERED IN THE BORINGS AND MAY BE ENCOUNTERED IN GREATER AMOUNTS AT OTHER LOCATIONS IN THE PROJECT AREA.



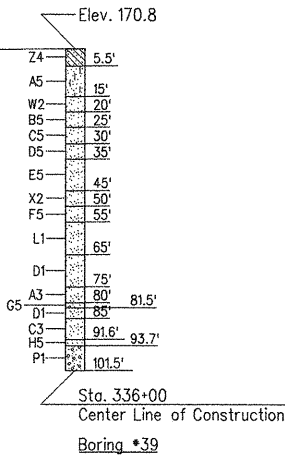
Sta. 321+39 - 13' Right of Center Line of Alternate 3		
4.0-	5.0,N=10	
10.9-	11.9,N=8	
15.5-	16.5,N=8	
20.5-	21.5,N=7	
25.5-	26.5,N=22	
30.5-	31.5,N=21	
35.5-	36.5,N=21	
40.5-	41.5,N=10	
45.5-	46.5,N=20	
50.5-	51.5,N=15	
55.5-	56.5,N=22	
60.5-	61.5,N=22	
65.5-	66.5,N=22	
70.5-	71.5,N=25	
75.5-	76.5,N=33	
80.5-	81.5,N=45	
85.5-	86.5,N=47	
90.5-	91.5,N=22	
95.5-	96.5,N=52	
100.5-	101.5,N=36	
105.5-	106.5,N=48	
110.5-	111.5,N=27	
115.5-	116.5,N=29	
120.5-	121.5,N=31	
125.5-	126.5,N=22	
130.5-	131.5,N=26	
135.5-	136.5,N=27	
140.5-	141.5,N=52	
145.5-	145.8,N=60(0.3')	
150.5-	151.5,N=53	
155.5-	156.5,N=42	
160.5-	160.8,N=60(0.3')	
165.5-	166.5,N=29	
170.5-	171.5,N=53	
175.5-	176.5,N=51	
180.5-	181.0,N=60(0.5')	
185.5-	186.5,N=77	
190.5-	191.5,N=37	
200.5-	201.5,N=45	



Sta. 325+23 - 72' Right of Center Line of Alternate 3		
4.0-	5.0,N=12	
10.0-	11.0,N=3	
15.5-	16.5,N=13	
20.5-	21.5,N=11	
25.5-	26.5,N=9	
30.5-	31.5,N=7	
35.5-	36.5,N=12	
40.5-	41.5,N=10	
45.5-	46.5,N=14	
50.5-	51.5,N=56	
55.5-	56.5,N=28	
60.5-	61.5,N=16	
65.5-	66.5,N=22	
70.5-	71.5,N=18	
75.5-	76.5,N=42	
85.5-	86.5,N=36	
90.5-	91.5,N=40	
95.5-	96.5,N=60	
100.0-	100.2,N=60(0.2')	
105.5-	106.5,N=22	
110.5-	111.5,N=22	
115.5-	116.5,N=19	
120.5-	121.5,N=23	
125.5-	126.5,N=30	
130.5-	131.5,N=22	
135.5-	136.5,N=20	
140.5-	141.5,N=26	
145.5-	146.5,N=23	
150.5-	151.3,N=51(0.8')	



Sta. 330+31 - Center Line of Alternate 3		
10.5-	11.5,N=21	
15.5-	16.5,N=8	
20.5-	21.5,N=26	
25.5-	26.5,N=22	
30.5-	31.5,N=11	
35.5-	36.5,N=25	
40.5-	41.5,N=15	
45.5-	46.5,N=49	
50.5-	51.5,N=28	
55.5-	56.5,N=20	
60.5-	61.5,N=18	
65.5-	66.5,N=21	
70.5-	71.5,N=29	
75.5-	76.5,N=25	
80.5-	81.5,N=36	
85.5-	86.5,N=38	
90.5-	91.5,N=58	
95.5-	96.5,N=40	
100.5-	101.5,N=41	
105.5-	106.5,N=35	
110.5-	111.5,N=35	
115.5-	116.5,N=37	
120.5-	121.5,N=40	
125.5-	126.3,N=81(0.8')	
130.5-	131.5,N=45	
135.5-	136.5,N=39	
140.5-	140.8,N=60(0.3')	
150.5-	151.5,N=62	



Sta. 336+00 - Center Line of Construction		
5.0-	6.0,N=10	
10.5-	11.5,N=7	
15.5-	16.5,N=12	
20.5-	21.5,N=20	
25.5-	26.5,N=19	
30.5-	31.5,N=10	
35.5-	36.5,N=25	
40.5-	41.5,N=33	
45.5-	46.5,N=21	
50.5-	51.5,N=29	
55.5-	56.5,N=16	
60.5-	61.5,N=20	
65.5-	66.5,N=26	
70.5-	71.5,N=20	
75.5-	76.5,N=33	
80.5-	81.5,N=29	
85.5-	86.5,N=54	
90.5-	91.5,N=63	
95.5-	96.5,N=57	
100.5-	101.5,N=61	

Sta. 318+94 - (River Bed Elev.) Center Line of Construction		
8.1-	9.1,N=7	
13.1-	14.1,N=19	
18.4-	19.4,N=30	
23.4-	24.4,N=12	
28.4-	29.4,N=23	
33.4-	34.4,N=12	
38.4-	39.4,N=26	
43.4-	44.4,N=10	
48.4-	49.4,N=10	
53.4-	54.4,N=31	
58.4-	59.4,N=29	
63.4-	64.4,N=26	
68.4-	69.4,N=31	
73.4-	74.4,N=29	
78.4-	79.4,N=75	
81.1-	82.1,N=23	
82.9-	83.9,N=25	
90.0-	91.0,N=26	
96.3-	97.3,N=51	
102.8-	103.8,N=46	
107.8-	108.2,N=60(0.4')	
114.8-	115.8,N=73	
124.8-	125.1,N=60(0.3')	
134.8-	135.8,N=69	
144.8-	145.2,N=60(0.4')	
154.8-	155.8,N=74	
164.8-	165.8,N=68	
174.8-	175.8,N=59	
185.4-	186.4,N=54	
190.4-	191.2,N=105(0.8')	
195.4-	195.6,N=30(0.2')	
199.9-	200.3,N=60(0.4')	

ALTERNATE NO. 1 & 2 WHITE RIVER BRIDGE

DETAILS OF SOIL BORINGS (SHEET 2 OF 2)

WHITE RIVER STR. & APPRS.
(CLARENDON) (PH. II) (F)
MONROE COUNTY

ROUTE 79 SEC. 13

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Engstrom / Modjeski and Masters

DRAWN BY: JDB/TAD DATE: Nov. 07 FILENAME: b1103941_17.dgn
CHECKED BY: LKD DATE: Nov. 01
DESIGNED BY: LKD DATE: Nov. 01

BRIDGE NO. 06830

DRAWING NO. 41962