

1971 ✓ Year

08717 ✓ County

MONTGOMERY

STORAGE DATA

Folder

Section File No. FEP-256Record Center No. 16-J-08

Tracings

Section File No. FET 293Record Center No. 11-G-52Job No.
ChangesProject
Ident.

MOT-675-0.00

Soil Profile**013903**Proj. No. I-675-

Project Code

Topo Sheet

435-9-SW, 435-9-NW ✓

Begin Sta.

40+00 42179

End Sta.

228+00 ✓

Design By

Length

3.56 ^{3.51}

Miles

Rev.

Drafting By

G.L.I.

Comp. Date

6-10-71

Drafting Hrs.

4

RECON

AUGER

CORE

DRIVE ROD

RESISTIVITY

By

J.S.M. ✓W.S.B. ✓

Dates

3/18/71 and 3/19/714/2/71, 4/12/71 to 4/15/71No. of Holes
or Soundings47 48

Footage

510.0' 535.0'

Samples Tested

126 ✓☒ Samples Accounted

No. of Tracings

8

Remarks

Transmittal Date

6/18/71

Revisions

Refer to

Length	Auger Data			Core Data			Drive Rod Data		Resistivity
	No. of Holes	Footage	Samples	No. of Holes	Footage	Samples	No. of Soundings	Footage	No. of Locations
<u>3.51</u>	<u>48</u>	<u>535.0</u>	<u>126</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Form TE-155

* See Reverse Side

35
48

FIELD BORING LOG

Project Code

Project Identification

0030

207-675-0.00

Station

Offset

Co., Rt., Sec. No.

46+08.1

Order Code

03

Crew

SB

Date

4-15-71

JS CB

Equipment

TA

Surface Elev.

②

Water Elev.

-9

Depth
FeetField
Number

Description

0.0-

0.8

TOP SOIL

7.6

86

MOIST BR SILTY CLAY W/

ROCK FRAG

5

97

MOIST BR SANDY CLAY W/ROCK

FRAG

4a

12

4a

98

MOIST BR SILTY CLAY W/

ROCK FRAG

4a

99

MOIST BR SILTY CLAY

W/ROCK FRAG

15

12

4a

100

MOIST BR SANDY CLAY W/

ROCK FRAG

20

12

4a

101

MOIST BR SILTY CLAY W/

ROCK FRAG

25

1

REF 24' ROCK

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

NOT-675-000

Station

Offset

Co., Rt., Sec. No.

50

+00

Order Code

0

Crew

S/B

Date

4-15-71

J.S. CB

Equipment

7A

Surface Elev.

Φ

Water Elev.

-4

Depth
FeetField
Number

Description

0.0

0.5

TOP SOIL

6.6

1.02

MOIST BR SILTY CLAY W/

2.5

ROCK FRAG

6

1.03

MOIST BR SANDY CLAY W/

4a

2.5

ROCK FRAG

Ø

MOIST SAND & GRAVEL

1.6

1.04

1.6

4.6

1.06

MOIST BR SANDY CLAY W/

ROCK FRAG

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NET-675-2.00

Station

Offset

Co., Rt., Sec. No.

53+00.0

Order Code 03

Crew

Date

SB
JS CB

4-15-71

Equipment

TA

Surface Elev.

Water Elev.

-0.6

Depth
Feet

Field
Number

Description

0.0-

25

TOP SOIL

1.0-

26

MOIST BR & GR SILTY
CLAY W/ ROCK FRAG

6.0-

28

0

11.0-

11

WET SAND & GRAVEL

16.0-

107

10

16.0-

108

MOIST BR CLAY SILT W/
ROCK FRAG

15

16.0-

108

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

MOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

56+00,

Order Code

03

Crew

SB
JS

Date

1-15-71

Equipment

74

Surface Elev.

4

Water Elev.

9

Depth
Feet

Field
Number

Description

00-

0.5

TOP SOIL

6a

92

BR SILTY CLAY w/ ROCK

15

FRAG

5

SAND AS ABOVE

6a

93

10

94

WET GR SILTY SAND w/
FINE GRAVEL

4a

15

4a

95

MOIST GR SILTY CLAY w/ ROCK
FRAG

15

1

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

NOT-675-0.33

Station

Offset

Co., Rt., Sec. No.

60+00

Order Code

03

Crew

SB

Date

4-15-71

J.S.

CB

Equipment

TA

Surface Elev.

6

Water Elev.

Depth

Field

Description

Feet

Number

0.0-

0.5

TOP SOIL

41

MOIST BR SILTY CLAY W/
ROCK FRAG

22

2

REF 6' BOULDERS

10

2. ATTEMPTS 675

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0033

NOT-670-0.00

Station

Offset

Co., Rt., Sec. No.

64+00

Order Code

03

Crew

SB

Date

4-15-71

JS CB

Equipment

TA

Surface Elev.

4

Water Elev.

-7

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

88

MOIST BR SILTY CLAY W/
ROCK FRAG

7.6

24

1.0

88

WET SAND & GRAVEL

6.0

91

MOIST BR SILTY CLAY W/
ROCK FRAG

1

COMPLETED

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

MOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

67+52.1

Order Code

01

Crew

GP

Date

4-15-71

JS

CB

Equipment

TA

Surface Elev.

Water Elev.

-6

Depth
Feet

Field
Number

Description

0.0-

015

TOP SOIL

83

MOIST BR SILTY CLAY W/
ROCK FRAG

66

23

WET SAND & GRAVEL

24

14
86

10

87

MOIST BR SANDY CLAY W/
ROCK FRAG

4a

12

15

↑

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

1107-675-0.00

Station

Offset

Co., Rt., Sec. No.

N + 0.00

Order Code 03

Crew

SB

Date

4-15-71

JS

CB

Equipment

TA

Surface Elev.

2

Water Elev.

-6

Depth
Feet

Field
Number

Description

0.0-0.5

TOP SOIL

6.6-8.2

19

MOIST BRISKY CLAY W/
ROCK FRAG

1.6-8.3

8.3

WET SAND & GRAVEL

10.1-1.6

8.4

WET SAND & GRAVEL

15

COMPLETE 12'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0000

11ST-675-0.00

Station

Offset

Co., Rt., Sec. No.

76+00.00

Order Code 03

Crew

SB
JS CB

Date

4-15-71

Equipment

TA

Surface Elev.

Water Elev.

3

Depth
Feet

Field
Number

Description

0.0

0.5

TOP SOIL

6.0

7.0

MOIST BR SILTY CLAY W/
ROCK FRAG - trace of lignite

16.0

18.0

WET SAND & GRAVEL

5

MOIST BR SANDY CLAY SILT

4.0

8.1

10

8.2

0

1

COMPLETE 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

5035

NOT-675-0-00

Station

Offset

Co., Rt., Sec. No.

80+00,

Order Code

03

Crew

S13

Date

4-15-71

JS CB

Equipment

TA

Surface Elev.

0

Water Elev

-7

Depth
Feet

Field
Number

Description

0.0-

0.8

FOP SOIL

15

MOIST BR SANDY CLAY W/
ROCK FRAG

4a

23

MOIST GR CLAY SILT

4b

160

WET GR SILTY SAND

4a

17

MOIST GR CLAY SILT

4b

21

0

15

2

COMPLETE 14'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

NOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

84+00.1

Order Code

03

Crew

SB

Date

4-12-71

ITS

CB

Equipment

HA

Surface Elev.

4

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

7.6

74

MOIST BR SILTY CLAY W/

23

ROCK FRAG

5

2

REF 4' WITH H.A.

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

MST-675-0.00

Station

Offset

Co., Rt., Sec. No.

88+00.1

9

Order Code

05

Crew

SB

Date

4-14-71

JS CB

Equipment

TA

Surface Elev.

6

Water Elev.

5

Depth
Feet

Field
Number

Description

0.0-

05

TOP SOIL

56

MOIST BR SILTY CLAY W/
ROCK FRAG

7.6

32

MOIST BR SILTY CLAY

6.0

57

MOIST OR SANDY SILT

28

10

4.6

58

COMPLETE 14'

22

1

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0093

NOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

91+50.1

Order Code

0.3

Crew

SLB

Date

4-14-71

JS CB

Equipment

TA

Surface Elev.

42

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

45

TOP SOIL

59

MOIST BR SILTY CLAY

46

20

SAME AS ABOVE

6a

23

46

6.19

MOIST GR SANDY SILT

↑

COMPLETE - 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

MOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

95+08

C

Order Code

03

Crew

SB

Date

4-14-71

JS CB

Equipment

TA

Surface Elev.

Water Elev.

-9

Depth
FeetField
Number

Description

00-010

TOP SOIL

62

MOIST BR SILTY CLAY w/

66

ROCK FRAG

20

MOIST BR SILTY CLAY w/

46

ROCK FRAG

10

COMPLETE 10'

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

99+00.1

Order Code

03

Crew

JB CB

Date

4-14-71

Equipment

TA

Surface Elev.

6

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

015

TOP SOIL

64

MOIST BR SILTY CLAY

65

23

66

20

MOIST BR & GR SILTY CLAY

65

10

↑

COMPLETE 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

103+00

Order Code

03

Crew

STB

Date

4-14-71

OTCB

Equipment

TA

Surface Elev.

2

Water Elev.

Depth
Feet

Field
Number

Description

00

015

TOP SOIL

66

66

MOIST GR SILTY CLAY W/

66

20

ROCK FRAG

5

66

SAME AS ABOVE

66

22

46

66

MOIST GR CLAY SILT

16

1

COMPLETE TO

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

107+00.0

Order Code 03

Crew

SB

Date

4-14-71

JS

CB

Equipment

TA

Surface Elev.

Water Elev.

Description

Depth
FeetField
Number

0.0-0.5

TOP SOIL

6.6-6.9
19BR SILTY CLAY W/ ROCK
FRAG

5

MOIST BR SILTY CLAY

6.6-7.0
18

MOIST BR SILTY CLAY

6.6-7.2
22

COMPLETE 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

111+00

Order Code 03

Crew

SB

Date

4-14-71

DS CB

Equipment

TA

Surface Elev.

4

Water Elev.

Depth
Feet

Field
Number

Description

00-

015

TOP SOIL

6b

23

MOIST BR SILTY CLAY W/
ROCK FRAG

5

SAME AS ABOVE

6b

18

10

73

11

COMPLETE 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0033

107-675-0.00

Station

Offset

Co., Rt., Sec. No.

115+00.0

0.0

Order Code

03

Crew

JB

Date

4-14-71

JS CB

Equipment

TA

Surface Elev.

Water Elev.

Depth Feet	Field Number	Description
0.0	0.5	TOP SOIL
4.0	53	MOIST BR SILTY CLAY w/ ROCK FRAG
5.0	23	⊕
6.0	54	MOIST BR SILTY CLAY w/
10.0	22	
	1	COMPLETE TO
15.0		
20.0		
25.0		
30.0		

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

119+00.0

0000

Order Code

03

Crew

SP

Date

4-14-71

TS CB

Equipment

HA

Surface Elev.

2

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

2.5

55

MOIST FBX SILTY CLAY

7.5

25

10.0

2

REF 4' NORTH H.A.

12.5

15.0

17.5

20.0

22.5

25.0

27.5

30.0

32.5

35.0

37.5

40.0

42.5

45.0

47.5

50.0

52.5

55.0

57.5

60.0

62.5

65.0

67.5

70.0

72.5

75.0

77.5

80.0

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0136

NOT-675-000

Station

Offset

Co., Rt., Sec. No.

123+0 0.1

Order Code

03

Crew

SB

Date

4-14-71

CB

Equipment

TA

Surface Elev.

0

Water Elev.

Depth
Feet

Field
Number

Description

0.0

0.5

TOP SOIL

6.6

31

MOIST BR SILTY CLAY

18

W/ RICK FRAG

5

SAME AS ABOVE

6.6

32

10

1

COMPLETE @ 10'

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0033

NOT-675-000

Station

Offset

Co., Rt., Sec. No.

127+00.1

Order Code

03

Crew

SB

Date

4-14-71

JS CB

Equipment

TA

Surface Elev.

2

Water Elev.

Depth
Feet

Field
Number

Description

0-0.0

TAP SOIL

48

MOIST BR SILTY CLAY w/
ROCK FRAG

7-6

20

MOIST BR SILTY CLAY

6-6

49

10

23

6-6

5-24

MOIST BR SILTY CLAY w/
ROCK FRAG

15

↑

COMPLETE @ 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0-80

Station

Offset

Co., Rt., Sec. No.

132+00.1

Order Code

03

Crew

SB

Date

4-2-71

JS CB

Equipment

TA

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-0.5

TOP SOIL

16

MOIST BR SILTY CLAY

76 31

5

SAME AS ABOVE

76 31

10

SAME AS ABOVE

76 18

15

23

11

COM PLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0.02

Station

Offset

Co., Rt., Sec. No.

134+00.0

Order Code 03

Crew

SB

Date

4-2-71

TS CB

Equipment

TA

Surface Elev.

4

Water Elev.

-3

Depth Feet	Field Number	Description
0.0	0.5	TOP SOIL
1.6	13	MOIST BR SILTY CLAY
5.6	27	MOIST BR SILTY CLAY
7.6	27	MOIST BR SILTY CLAY
10.6	27	MOIST BR SILTY CLAY
15.6	15	COMPLETE 15'
20.6		
25.6		
30.6		

Use reverse side of this sheet for additional notes

28910 FIELD BORING LOG 28927

Project Code

Project Identification

0035

MOT-675-0100

Station

Offset

Co., Rr., Sec. No.

1138700.

E

Order Code 03

Crew

SB

Date

4-2-71

JS CB

Equipment

TA

Surface Elev.

6

Water Elev.

-11

Depth
FeetField
Number

Description

0.0

0.0

TOP SOIL

7.6

1

MOIST BR SILTY CLAY (H)
ROCK FRAG

5

29

7.6

1

MOIST BR SILTY CLAY (H)
ROCK FRAG

25

10

3

MOIST BR CLAY SILT

6.6

23

15

1

COMPLETE 15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0033

MAF-675-0.00

Station

Offset

Co., Rt., Sec. No.

142 + 50

Order Code

03

Crew

SB

Date

4-2-71

TS CB

Equipment

TA

Surface Elev.

Water Elev.

6

Depth
Feet

Field
Number

Description

0.0-

25

TOP SOIL

4

MOIST DR BR SILTY CLAY

7.6

25

5

5

MOIST BR SILTY CLAY

7.6

29

10

MOIST DR SILTY CLAY

6.6

24

15

24

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0033

NOT-675-000

Station

Offset

Co., Rt., Sec. No.

146+00

Order Code

03

Crew

SB

Date

4-2-71

JS CB

Equipment

TA

Surface Elev.

6

Water Elev.

-2

Depth
Feet

Field
Number

Description

0.0

05

TOP SOIL

7

MOIST BR SILTY CLAY

1.6

26

5

MOIST BR SILTY CLAY

6.6

8

23

10

MOIST BR SILTY CLAY

6.6

9

24

15

1

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

147+30.

Order Code 03

Crew SB

Date 4-2-71

JS CB

Equipment TA

Surface Elev.

0

Water Elev.

-4

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

10

MOIST BR SILTY CLAY W/ ROCK
FRAG

7.6
5

31

MOIST BR SANDY CLAY W/
ROCK FRAG

4.9
10

11
11

MOIST BR CLAY SILT

6.0
15

22
12

COMPLETE 15'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

151 + 50,

Order Code 01

Crew

Date

SB

4-12-71

JS

CB

Equipment

TA

Surface Elev.

Water Elev.

 Depth
Feet

 Field
Number

Description

0.0-

0.5

TOP SOIL

6.0-

5

MOIST BR SANDY CLAY

8.0-

13

MI ROCK FRAG

12.0-

12

SAME AS ABOVE

10.0-

6

10.0-

1

COMPLETE TO

15.0-

20.0-

25.0-

30.0-

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

Project Code

Project Identification

0035

MOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

135+00.1

K

Order Code

Crew

S/B

Date

4-12-71

JS CB

Equipment

TA

Surface Elev.

0

Water Elev.

Depth Feet

Field Number

Description

0.0- 0.5

TOP SOIL

6a

7

 MOIST BR SANDY CLAY
W/ ROCK FRAG

5

13

6b

8

SAME AS ABOVE

10

13

6a

9/12

 MOIST BR SANDY CLAY W/
ROCK FRAG

15

↑

COMPLETE 14'

20

25

30

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

159+00.

Order Code

03

Crew

SB
JS CB

Date

4-12-71

Equipment

TA

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

10

MOIST BR SANDY CLAY W/
ROCK FRAG

4a

18

SAME AS ABOVE

4a

11

SAME AS ABOVE

10

12

MOIST GR SANDY CLAY
W/ ROCK FRAG

4a

15

MOIST GR SILTY CLAY

6a

13

MOIST GR SILTY CLAY

1

COMPLETE 16'

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0035

NOT-675-0.00

Station

Offset

Co., Rt., Sec. No.

163+00.1

Order Code

03

Crew

513

Date

4-12-71

JS CB

Equipment

TA

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0

13

TOP SOIL

6.0

14

MOIST BR SILTY CLAY W/
ROCK FRAG

5.0

14

SAME AS ABOVE

6.0

15

10.0

17

MOIST GR SANDY CLAY SILT

4.0

16

15.0

16

COMPLETE 15'

20.0

25.0

30.0

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0033

NOT-675-0100

Station

Offset

Co., Rt., Sec. No.

166+50.1

Order Code

03

Crew

SB

Date

4-12-71

JS

CB

Equipment

TA

Surface Elev.

0

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

0.5

TOP SOIL

17

MOIST BR SANDY CLAY W/
ROCK FRAG

6a

22

18

MOIST BR SILTY CLAY W/
ROCK FRAG

6a

14

16

MOIST BR SILTY CLAY W/
ROCK FRAG

6a

19

20

MOIST BR SILTY CLAY W/
ROCK FRAG

6a

12

11

COMPLETE 17'

20

25

30

Use reverse side of this sheet for additional notes

29908 FIELD BORING LOG 30015

Project Code

Project Identification

0035

MIT-675-000

Station

Offset

Co., Rt., Sec. No.

170+50

-

Order Code

0

Crew

SR

Date

4-12-71

Equipment

TA

Surface Elev.

4

Water Elev.

Depth
FeetField
Number

Description

0.0-

0.5

TOP SOIL

1.6

25

MOIST BA SILTY CLAY w/
ROCK FRAG

5

6.6

2

SANDY SILTY CLAY

10

16

6.6

3

DRY BA SILTY CLAY
w/ROCK FRAG

15

13

6.6

4

MOIST BA SILTY CLAY w/
ROCK FRAG

20

17

25

21

30

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

Project Code

Project Identification

111

111

Station

Offset

Co., Rt., Sec. No.

1175+10

Order Code 113

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth Feet	Field Number	Description
0-1	1	111
2-1	2	111
6-8	27	111
4-6	22	111
10	11	111
4-6	10	111
15		111
20		111
25		111
30		111

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

1 7 9 + 0 0

117-6.2-0-0

Station

Offset

Co., Rt., Sec. No.

Order Code

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Description

0.0

2.4

6.6

2.6

5

2.5

4a

9

10

1

15

20

25

30

30

30

30

30

30

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ROCK

ROCK

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0030

105-100-1

Station

Offset

Co., Rt., Sec. No.

183+30

Order Code 00

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

20

TOP SOIL
MISTY CLAY

7.6

22

6.6

215

CLAY / MISTY CLAY
FRAG

1.1

2

2.47 2.1 585

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0001

11-175-111

Station

Offset

Co., Rt., Sec. No.

121+00.00

Order Code 000

Crew

Date

SB

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

00-

00

66

20

1

5

10

15

20

25

30

20-21 ft. clay
21-22 ft. clay
22-23 ft. clay
23-24 ft. clay
24-25 ft. clay
25-26 ft. clay
26-27 ft. clay
27-28 ft. clay
28-29 ft. clay
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31-32 ft. clay
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88-89 ft. clay
89-90 ft. clay
90-91 ft. clay
91-92 ft. clay
92-93 ft. clay
93-94 ft. clay
94-95 ft. clay
95-96 ft. clay
96-97 ft. clay
97-98 ft. clay
98-99 ft. clay
99-100 ft. clay

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

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11-7-65-2-10

Station

Offset

Co., Rt., Sec. No.

1	8	2	+	2	,				
---	---	---	---	---	---	--	--	--	--

Order Code

1	8
---	---

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

7-6

26

5

10

15

20

25

30

11-7-65-2-10

REF 2130-5

2-1-10-2-10

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

035

175-175-0-03

Station

Offset

Co., Rt., Sec. No.

174+20

Order Code

Crew

Date

4-13-77

Equipment

Surface Elev.

Water Elev.

Description

Depth
Feet

Field
Number

0.0-

7.6

23

Handwritten notes in description column, including "Handwritten notes" and "Handwritten notes".

5

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0030

0030

Station

Offset

Co., Rt., Sec. No.

111+00

Order Code

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

00- 015

01 01

02 01

03 01

04 01

05 01

06 01

07 01

08 01

09 01

10 01

11 01

12 01

13 01

14 01

15 01

16 01

17 01

18 01

19 01

20 01

21 01

22 01

23 01

24 01

25 01

26 01

27 01

28 01

29 01

30 01

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

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116757-1-1

Station

Offset

Co., Rt., Sec. No.

1	2	3	4	5	6	7	8	9	0	+	1	2	3	4	5	6	7	8	9	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Order Code	1	2	3	4	5	6	7	8	9	0
------------	---	---	---	---	---	---	---	---	---	---

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0-0

20

116757-1-1

1-0

43

116757-1-1

2-0

15

116757-1-1

3-0

34

116757-1-1

4-0

12

116757-1-1

5-0

9

116757-1-1

6-0

12

116757-1-1

7-0

12

116757-1-1

8-0

12

116757-1-1

9-0

12

116757-1-1

10-0

12

116757-1-1

11-0

12

116757-1-1

12-0

12

116757-1-1

13-0

12

116757-1-1

14-0

12

116757-1-1

15-0

12

116757-1-1

16-0

12

116757-1-1

17-0

12

116757-1-1

18-0

12

116757-1-1

19-0

12

116757-1-1

20-0

12

116757-1-1

21-0

12

116757-1-1

22-0

12

116757-1-1

23-0

12

116757-1-1

24-0

12

116757-1-1

25-0

12

116757-1-1

26-0

12

116757-1-1

27-0

12

116757-1-1

28-0

12

116757-1-1

29-0

12

116757-1-1

30-0

12

116757-1-1

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

0035

1115 6-1-10

Station

Offset

Co., Rt., Sec. No.

1015+000

Order Code

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

20

2015 6-1-10

6a
5

11

REF 2015

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

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Station

Offset

Co., Rt., Sec. No.

2	1	3	+	1	0	,	0	0	0
---	---	---	---	---	---	---	---	---	---

Order Code

--	--

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

6.6

21

5

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

0000

7150-5-5-2-1

Station

Offset

Co., Rt., Sec. No.

217+00

Order Code

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth Feet	Field Number	Description
0.0	00	TOP SOIL
6.6	21	TOP OF CLAY
3.0	20	TOP OF SAND
4.0	18	TOP OF GRAVEL
15.0		RECEIVED
20.0		
25.0		
30.0		

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

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Station

Offset

Co., Rt., Sec. No.

2	2	1	+	1	1	,				
---	---	---	---	---	---	---	--	--	--	--

Order Code

--	--

Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth
Feet

Field
Number

Description

0.0-

4b

17

5

4a

12

6a

16

10

15

20

25

30

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project Identification

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Station

Offset

Co., Rt., Sec. No.

1	4	+	1	5	,				
---	---	---	---	---	---	--	--	--	--

Order Code

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Crew

Date

Equipment

Surface Elev.

Water Elev.

Depth Feet	Field Number	Description
0.0		
6.6	28	
5		
4.0	15	
6.6	9	
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes

FIELD BORING LOG

Project Code

Project

Identification

--	--	--	--

Station

Offset

Co., Rt., Sec. No.

2	2	4	+	5	,		
---	---	---	---	---	---	--	--

Order Code

Crew

Date

Equipment

Surface Elev.

Water Elev.

 Depth
Feet

 Field
Number

Description

0.0-

6.6

28

5

4.0

15

6.6

9

10

15

20

25

30

Use reverse side of this sheet for additional notes

LOG OF BORING

Date Started 3-16-71
 Date Completed 3-18-71
 Boring No. B-1

Sampler Type SS Dia. 1 3/8"
 Casing Length 32.5' Dia. 3 1/2"
 Station & Offset 18+62, 7' LT. (REAR ABUTMENT)
173+55 - 137' RT

Water Elev. _____

Surface Elev. 887.7'

(B)

Elev.	Depth	Std Per (IN)	Rec (IN)	Loss (IN)	Description	Physical Characteristics										SHTL Class.	
						No	% Agg	% CS	% FS	% Sil	% Clay	LL	PI	WC			
887.7	2																
885.2	4	3/4	2.5-3.5		BROWN & GRAY SILTY CLAY	1	4	4	8	41	43	39	17	37	A-6b		
882.7	6	4/5	5-6		BROWN & GRAY CLAY	2	2	1	4	46	47	41	21	27	A-7-6		
880.2	8	4/5	7.5-8.5		GRAY SILTY CLAY	3	0	1	2	28	40	18	24	A-6b			
877.7	10	12/15	10-11		GRAY SANDY GRAVELLY CLAY	4	27	11	11	25	26	29	13	13	A-6a		
875.2	12	15/22	12.5-13.5		GRAY GRAVELLY SANDY SILT	5	24	12	17	27	20	18	5	11	A-4a		
872.7	14	16/18	15-16		GRAY GRAVELLY SANDY SILT	6	24	10	15	28	23	20	8	11	A-4a		
870.2	16	10/10	17.5-18.5		GRAY GRAVELLY SANDY SILT	7	23	7	23	28	19	18	6	13	A-4a		
867.7	18	9/13	20-21		BROWN SILTY SAND	8	0	1	71	21	7	NP	NP	24	A-3a		
862.7	20																
862.7	22																
862.7	24																
862.7	26	13/17	25-26		BROWN SILTY SAND	9	3	2	69	17	9	NP	NP	25	A-3a		
857.7	28																
857.7	30	10/11	30-31		BROWN SILTY SAND	10	14	12	42	16	16	NP	NP	22	A-3a		
855.2	32																
	34		2.2	0.3	TOP OF ROCK												
	36				SHALE, GRAY, MEDIUM-FIRM, CALCAREOUS, INTERBEDDED WITH GRAY, HARD, DENSE LIMESTONE BEDS (0.1' TO 0.3' THICK) COMPRISING 23% OF THE INTERVAL, AND THIN CLAY SEAMS THROUGHOUT, GENERALLY BROKEN AND JOINTED, WITH SCATTERED VERY BADLY BROKEN INTERVALS, CORE LOGS: 5%												
	38		4.8	0.2													
	40																
845.2	42		2.5	0.0													

BOTTOM OF BORING

LOG OF BORING

Date Started 3-31-71Sampler Type SSDia 1 3/8"

Water Elev. _____

Date Completed 4-5-71Casing Length 60'Dia 3 1/2"Boring No. B-8Station & Offset 50+80, 35' RT. (FORWARD PIER)Surface Elev. 893.2'

(A)

Elev	Depth	Std. Pen (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics									SHTL Class.	
							% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.			
893.2	0																
890.7	2																
	4	2/3	2.5-3.5		BROWN SILTY CLAY	1	10	2	7	40	41	37	19	26		A-6b	
888.2	6	4/7	5-6		GRAY SILTY CLAY	2	0	1	3	35	61	37	18	27		A-6b	
885.7	8	3/3	7.5-8.5		BROWN & GRAY SILT	3	0	1	13	50	36	18	3	28		A-4b	
883.2	10	6/10	10-11		GRAY SILT	4	0	2	15	69	14	NP	NP	20		A-4b	
880.7	12	12/7	12.5-13.5		GRAY SILT	5	0	0	12	57	31	NP	NP	23		A-4b	
878.2	14																
	16	9/11	15-16		GRAY SILTY CLAY	6	0	0	0	34	66	35	16	21		A-6b	
875.7	18	10/13	17.5-18.5		GRAY SILTY CLAY	7	0	0	0	23	77	45	20	25		A-7-6	
873.2	20	7/9	20-21		GRAY SILTY CLAY	8	0	0	0	25	75	39	16	26		A-6b	
	22																
	24																
868.2	26	5/5	25-26		GRAY SILT & CLAY	9	0	0	0	59	41	37	15	28		A-6b	
	28																
863.2	30	4/6	30-31		GRAY SILTY CLAY	10	0	0	0	31	69	35	16	27		A-6b	
	32																
	34																
858.2	36	4/5	35-36		GRAY SILTY CLAY	11	0	0	0	26	74	39	19	29		A-6b	
	38																
853.2	40	4/4	40-41		GRAY SILT & CLAY	12	0	0	0	31	69	35	16	28		A-6a	
	42																
	44																
	46	5/6	45-46		GRAY SILTY CLAY	13	0	0	0	28	72	37	17	28		A-6b	
	48																
	50	5/6	50-51		GRAY SILTY CLAY	14	0	0	0	32	68	37	18	29		A-6b	
	52																
	54																
	56	15/17	55-56		GRAY SILTY SANDY GRAVEL W/COBBLES	15	46	6	10	20	18	21	8	12		A-4a	
	58																
	60	25/40	60-61		GRAY SANDY GRAVELLY SILT	16	35	8	11	24	22	21	8	11		A-4a	
	62																
	64																
	66	23/30	65-66		GRAY CLAY	17	0	1	0	25	74	41	21	21		A-7-6	
	68																
	70	17/23	70-71		GRAY SILTY CLAY	18	0	1	1	22	76	41	20	22		A-7-6	

BOTTOM OF BORING

LOG OF BORING

Date Started 3-11-71Sampler Type SS Dia 1 3/8"Water Elev Date Completed 3-16-71Casing Length 50' Dia 3 1/2"Boring No. B-8Station & Offset 20+86.25' RT. (FORWARD PIER)Surface Elev 903.0'

C

Elev	Depth	Std. Pen (N)	Rec (ft)	Loss (ft)	Description	Sample No	Physical Characteristics									SHTL Class.
							% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.		
903.0	0															
	2															
	4															
898.0	6	7/9	5-6		BROWN & GRAY SILT & CLAY	1	6	4	9	33	48	31	15	17		A-6a
	8															
893.0	10	11/14	10-11		BROWN SILT & CLAY	2	6	4	10	39	41	26	11	17		A-6a
	12															
	14															
888.0	16	8/13	15-16		GRAY SILTY CLAY	3	0	1	2	31	66	38	19	21		A-6b
885.5	18	12/18	17.5-18.5		GRAY SILTY CLAY	4	0	1	0	33	66	38	18	23		A-6b
883.0	20	8/12	20-21		GRAY SILTY CLAY	5	0	1	0	27	72	41	20	26		A-7-6
880.5	22	7/12	22.5-23.5		GRAY SILTY CLAY	6	0	0	0	26	74	44	20	25		A-7-6
	24															
878.0	26	7/9	25-26		GRAY GRAVELLY SANDY SILT	7	22	9	16	32	21	19	1	12		A-4a
875.5	28	13/14	27.5-28.5		GRAY SANDY GRAVELLY SILT	8	27	10	15	29	19	18	5	6		A-4a
873.0	30	13/16	30-31		GRAY GRAVELLY SANDY SILT	9	19	10	17	30	24	20	8	10		A-4a
870.5	32	21/29	32.5-33.5		GRAY SANDY GRAVELLY SILT	10	26	8	14	29	23	20	7	10		A-4a
868.0	34	20/33	35-36		GRAY SANDY SILT	11	12	9	16	36	27	20	4	11		A-4a
	36															
	38															
863.0	40	12/14	40-41		BROWN SILTY SAND	12	0	0	79	13	6	NP	NP	28		A-3a
	42															
	44															
	46															
	48															
	50															
	52															
	54															
	56															
	58															
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FOUNDATION EXPLORATION SECTION
SOIL PROFILE INVESTIGATION RECONNAISSANCE REPORT

PROJECT IDENTIFICATION

MOT 675-000

Co., Rt., Sec. No. _____

Project
Code

0035

Reconn. By

J.S. Mayes

Dates:

3-18, 19-71

Job No.

08717

Sheet 1 of 3

Instructions to Reconnaissance Personnel

The Reconnaissance Report for this Soil Profile Investigation shall contain the items listed below:

1. Description of the Project.
2. Geology of area traversed by Project.
3. Description of Topography of Project.
4. General estimate of subsurface conditions.
5. Specific information relative to critical soil conditions.
6. Schedule of Auger Borings
7. Schedule of Core Borings
8. Instructions to Crew Chief
 - a. Special Equipment Required
 - b. Safety Considerations
 - c. Special Instructions

FOUNDATION EXPLORATION SECTION
SOIL PROFILE INVESTIGATION RECONNAISSANCE REPORTReconn. By J. S. MaxeyDates: 3-18, 19-71

PROJECT IDENTIFICATION

MDT 675-0.00

Co., Rt., Sec. No.

Sheet 2 of 3① Description of Work.

It is planned to build 3.56 miles of 4 lane divided high way from I-75 to Normandy Lane in Centerville. Alignment is north east-southwest and nearly straight. Beginning and ending stations are 40+10 and 228+50.

② Geology.

Alignment lies on the glaciated terrington plain just east of a portion of the Camden moraine. Glacial drift is reported to be thin with an average in the Centerville area of less than 25 feet. Bedrock of the Richmond formation consisting of dense shale and hard limestone outcrops in a gully at station 210+50. Core borings encountered rock in the neighborhood of 30 feet at Hales creek on McEwen road.

There are no buried valleys reported.

An outlier of Bransfield limestone is mapped under Centerville which might be encountered in borings on Normandy Lane at the end of the project.

Relief over the extent of the project is low

Ohio Department of Highways
Testing LaboratoryFOUNDATION EXPLORATION SECTION
SOIL PROFILE INVESTIGATION RECONNAISSANCE REPORTReconn. By J.S. MAHER

PROJECT IDENTIFICATION

Dates: 3-18, 19-71MOT 675-0.00

Co., Rt., Sec. No.

Sheet 3 of 3

with a total along centerline of only 66 feet.
Subsurface materials are dense clay tills and
surface drainage is poor.

FOUNDATION EXPLORATION SECTION
SCHEDULE OF TEST BORINGS

PROJECT IDENTIFICATION

MOT 675-0.00

Co., Rt., Sec. No. _____

Reconn. By J.S. Maxey

Project Code 0035

Dates: 3-18, 19-71

Job No. _____

Sheet 1 of 3

ORDER CODE	BORING LOCATIONS			TYPE*			DEPTH	REMARKS
	Boring No.	Station	Offset	TA	HA	PS		
03	1	46+00.		4			20	Ry 24' IR 675
	2	50+00.		4			15	
	3	53+00.		4			15	X-section if organic
	4	56+00.		4			15	
	5	60+00.		4			15	Ry 6' Boulders
	6	64+00.		4			10	
	7	67+00.		4			15	
	8	71+00.		4			10	X section if organic
	9	76+00.		4			10	" "
	10	80+00.		4			10	
	11	84+00.		4			11	Ry 4 HA
	12	88+00.		4			10	
	13	91+50.		4			10	
	14	95+00.		4			10	
	15	99+00.		4			10	
	16	103+00.		4			10	
	17	107+00.		4			10	
	18	111+00.		4			10	
	19	115+00.		4			10	
	20	119+00.		4			10	Ry 4 HA

*TA=Truck Mounted Auger HA=Hand Auger PS=Peat Sampler

Note to Driller: PROJECT CODE to be put on MASTER CARDS, SAMPLE CARDS, & FIELD LOGS
ORDER CODE to be put on SAMPLE CARDS and FIELD LOGS.

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS (CONTINUED)

PROJECT IDENTIFICATION

Project Code 0035

MOT 675-0.00

Sheet 2 of 3 Co., Rt., Sec. No.

ORDER CODE	BORING LOCATIONS				TYPE			DEPTH	REMARKS
	Boring No	Station	Offset	TA	HA	PS			
0	321	123+00,		4			10		
	✓22	127+00,		4			15		
	✓23	132+00,		4			15	x-section if necessary	
	✓24	134+00,		4			15		
	✓25	138+00,		4			15		
	✓26	142+00,		4			15		
	✓27	146+00,		4			15		
	✓28	147+30,		4			15		
	✓29	151+50,		4			10		
	✓30	155+00,		4			14		
	✓31	159+00,		4			16		
	✓32	163+00,		4			15		
	✓33	166+50,		4			17		
	✓34	170+00,		4			21		
	✓35	175+00,		4			15	Deeper if organic	
	✓36	179+00,		4			15	Rf 10.5' "	
	✓37	183+00,		4			15	Rf 5' "	
	✓38	187+00,		4			10	Rf 2'	
	✓39	190+00,		4			10	Rf 2'	
	✓40	194+00,		4			15	Rf 2'	
	✓41	197+00,		4			20	Rf 7'	
	✓42	201+00,		4			15		
	✓43	205+00,		4			20	Rf 5'	
	✓44	209+00,		4			10	Rf 3'	
	✓45	213+00,		4			10	Rf 4'	
	✓46	217+00,		4			18	Rf 11.5'	
	✓47	221+00,		4			11	Rf 8'	

SCHEDULE OF TEST BORINGS (CONTINUED)

Project Code	0035
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MOT 675-0.00

Sheet 3 of 3

[illegible]

IR 675 0.00

June 18, 1971

E. J. Schaefer, Engineer of Location & Design

H. E. Marshall

F. M. Williams

Per: R. E. Calvin

Report of Soil Profile Investigation

MOT-675-0.00

I-675-

File: 203-1.1
Montgomery

Transmitted herewith is a copy of the soil profile for the subject project. General information regarding observations, the investigation, and findings, appears on drawing sheet number one.

The reproduced tracings of this report are being sent to the Consultant to be attached to the plans.

F. M. Williams
Engineer of TestsPer: R. E. Calvin
R. E. Calvin
Assistant Engineer

REC:nja

Encl.

cc: Robert F. Bevis (3)
J. L. Oswald (no encl.)
A. M. Kinney, Inc., Attn: J. C. Overmann
J. R. Leske (no encl.)
R. P. Turner, Attn: C. H. Shepard
R. C. Leathers (no encl.)
R. E. Calvin (4)

*Orig. photo: Nashville
cc: Atlanta*

A. M. KINNEY, INC.
CONSULTING ENGINEERS
2012 VERNON PLACE
CINCINNATI, OHIO
45210

NEW YORK
CHICAGO
DENVER
BASEL

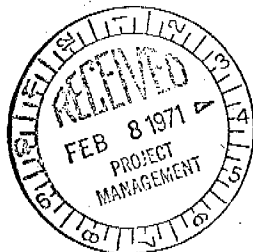
513-751-3934

CABLE-KINPLAN

February 5, 1971

Mr. J. R. Leeke
Administrator of Production Control
Ohio Department of Highways
Bureau of Location and Design
Ohio Departments Building
25 South Front Street
Columbus, Ohio 43215

Subject: MOT-675-0.00
Soil Profile



Dear Mr. Leeke:

We are enclosing two prints each of the following preliminary drawings:

Plan & Profile Sta. 40 to Sta. 230 (19 sheets)
Strip Map, 200' Scale (one sheet)
I-75 Interchange Configuration, 200' Scale (one sheet)
S.R. 725 Interchange Configuration, 200' Scale (one sheet)

These drawings are for your information in preparation of the soil profile.

Very truly yours,

A. M. KINNEY, INC.

J. C. Overmann
J. C. Overmann
Project Manager

JCO/jb
Encl.

F

November 4, 1969

A. M. Kinney, Inc.
Consulting Engineers
2912 Vernon Place
Cincinnati, Ohio 45219

File: 203-1.1
Montgomery

Attn: Mr. J. C. Overman

Re: Soil Profile Investigation
NOT-679-C.00

Dear Mr. Overman:

The subject project has been carried on our schedules since May 23, 1968, when preliminary plans were received. Since that time no plans other than the 1"-200' plan profile have been received.

If more accurate plans are available, please send two sets to this office so that the soil profile investigation may be performed.

Very truly yours,

F. M. Williams
Engineer of Tests

Per: 

R. E. Calvin
Assistant Engineer

GFA:bml

cc: J. R. Locke
R. E. Catlin, Attn: H. E. Marshall
R. E. Calvin (3)

57
A. M. KINNEY, INC.
CONSULTING ENGINEERS
2912 VERNON PLACE
CINCINNATI, OHIO
45219

MOT-675-0.00
MOT-675-3.72
MOT-675-6.55(0.00)

May 20, 1968

Mr. G. J. Thornmyer
Production Control Engineer
Ohio Department of Highways
Bureau of Location and Design
25 South Front Street
Columbus, Ohio 43215

Subject: I.R. 675

Dear Mr. Thornmyer:

Pursuant to Mr. Clark's request, we are sending you two prints each of the line and grade sheets and the typical section sheets for each of the three construction sections of the subject project. It is understood that these prints are to be used in preparing the soil profile request.

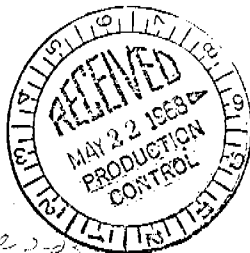
Yours very truly,

A. M. KINNEY, INC.

L. W. Angell
L. W. Angell
Project Manager

LWA:bh
Encl.

cc: L. I. Clark
F. C. Hoffman
A. R. Petrocy





STATE OF OHIO
DEPARTMENT OF HIGHWAYS

Columbus 15, Ohio

P. E. MASHETER
Director

JAMES A. RHODES
Governor

C. H. MAKEEVER
Chief Engineer

May 14, 1969

C
O
P
Y

A. M. Kinney, Inc.
Consulting Engineers
2912 Vernon Place
Cincinnati, Ohio 45219

Attn: Mr. J. C. Overman

File: 203-1.1
Montgomery

Re: Soil Profile Investigation
MOT-675-0.00

Dear Mr. Overman:

Plans for the subject project were received by this office on May 23, 1968, for the purpose of performing the soil profile investigation. Since that time, requests have been made for satisfactory plans from which to develop a boring program, however, no plans other than the 1"-200' preliminary plan-profile have been received.

The soil profile investigation will be performed after receipt of satisfactory plans for the project.

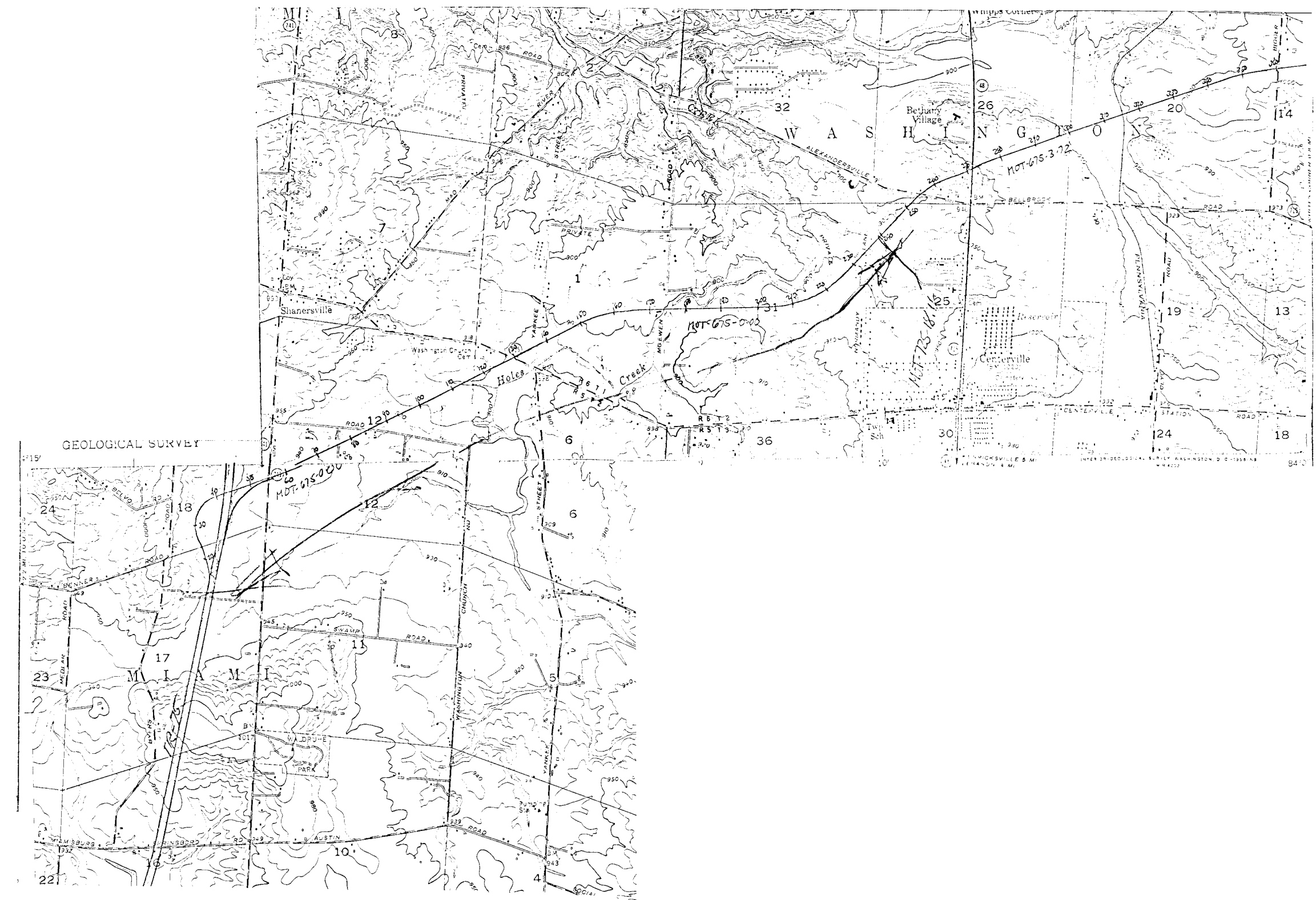
Very truly yours,

F. M. Williams
Engineer of Tests

Per: R. E. Calvin
R. E. Calvin
Assistant Engineer

CPH:nja

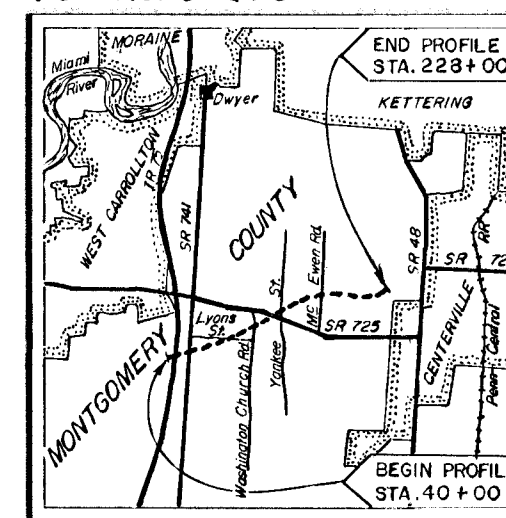
cc: J. R. Leeke
R. E. Catlin, Attn: H. E. Marshall
R. E. Calvin (3)



SOIL PROFILE
MONTGOMERY COUNTY
MOT-675-0.00
OHIO STATE HIGHWAY TESTING
LABORATORY
1820 W. BROAD ST. COLUMBUS, OHIO 43223

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Fed. No. 1-675-



LOCATION MAP

Recon - J.S.M. - 3/19/71
Drilling - W.S.B. - 4/2/71, 4/12/71 to 4/15/71.
Drafting - C.L.I. - 6/18/71

GENERAL INFORMATION

INTRODUCTION

THIS REPORT CONSISTS OF THE SOILS INVESTIGATION OF 3.56 MILES OF PROPOSED I-675, BEGINNING AT I-75, APPROXIMATELY 1 MILE SOUTH OF THE I-75-SR 725 INTERCHANGE, EXTENDING NORTHEASTWARD AND TERMINATING 0.6 MILE WEST OF SR 48 AND 0.7 MILE NORTH OF SR 725.

PROPOSED GRADE INDICATES MAXIMUM PROPOSED 12-FOOT CUTS AND 15-FOOT FILL EMBANKMENTS.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE PROJECT IS LOCATED ON A RELATIVELY FLAT PORTION OF THE GLACIATED LEXINGTON PENEPLAIN, IN AN AREA WHERE THIN TO MODERATELY THICK GLACIAL DRIFT OVERLIES INTERBEDDED SHALE AND LIMESTONE BEDROCK OF OROOVICIAN AGE. LOW WET AREAS WERE OBSERVED IN THE VICINITIES OF STATIONS 52+00 TO 56+00, 65+00 TO 75+00, AND 132+00 TO 134+00.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER AND HAND AUGER (IN DIFFICULT ACCESS AREAS), BETWEEN APRIL 2 AND 15, 1971. INCLUDED IN THIS REPORT ARE LOGS OF BORINGS MADE FOR THE STRUCTURE FOUNDATION INVESTIGATIONS ON THE PROJECT.

INVESTIGATIONAL FINDINGS

MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF SILT CLAYS (A-6a AND A-6b), WITH SANDY SILTS (A-4a AND A-4b) AND CLAYS (A-7-6). GENERALLY HAVING LOW MOISTURE CONTENTS AND MOISTURE CONTENTS IN THE LOWER PORTIONS OF THE PLASTIC RANGE.

FROST SUSCEPTIBLE SILT WAS ENCOUNTERED WITHIN THREE FEET BELOW PROPOSED GRADE AT STATION 221+00.

WET MATERIALS WERE ENCOUNTERED AT STATIONS 59+00, 53+00, 76+00 (WITH ORGANIC MATTER), 80+00, 91+50, 115+00, 141+08, 173+55, 174+08, AND 217+00.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS- 128

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL	A-1-a(0)	A-1-a	58	20	18	4	4	NP	NP	10	1
GRAVEL WITH SAND	A-1-b(0)	A-1-b	48	20	23	6	5	NP	NP	15	5
COARSE AND FINE SAND	-----	A-3a	14	31	28	13	14	NP	NP	20	1
GRAVEL WITH SAND AND SILT	A-2-4(0)	A-2-4	33	19	20	17	11	NP	NP	14	1
SANDY SILT	A-4(4)	A-4a	15	8	20	34	23	21	7	14	25
SILT	A-4(8)	A-4b	2	1	8	64	25	24	4	19	10
SILT AND CLAY	A-6(9)	A-6a	10	4	10	35	41	29	13	18	34
SILTY CLAY	A-6(12)	A-6b	7	3	6	32	52	37	19	21	28
CLAY	A-7-6(15)	A-7-6	5	2	6	33	54	46	24	26	21
SHALE											
LIMESTONE											
BOULDERS OR COBBLES											
TOPSOIL=X'=APPROXIMATE DEPTH.											
AUGER BORING-PLAN VIEW.											
DRIVE SAMPLE AND/OR CORE BORING-PLAN VIEW.											
AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.											
DRIVE SAMPLE AND/OR CORE BORING PLOTTED TO VERTICAL SCALE ONLY.											
NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT, E.G. /5											

WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT.

FREE WATER.

NUMBER OF BLOWS FOR "STANDARD PENETRATION" TEST.
X=NUMBER OF BLOWS FOR FIRST 6 INCHES.
Y=NUMBER OF BLOWS FOR SECOND 6 INCHES.

GENERAL INFORMATION

INTRODUCTION

THIS REPORT CONSISTS OF THE SOILS INVESTIGATION OF 3.56 MILES OF PROPOSED IR 675, BEGINNING AT IR 75, APPROXIMATELY 1 MILE SOUTH OF THE IR 75-SR 725 INTERCHANGE, EXTENDING NORTHEASTWARD AND TERMINATING 0.6 MILE WEST OF SR 48 AND 0.7 MILE NORTH OF SR 725.

PROPOSED GRADE INDICATES MAXIMUM PROPOSED 12-FOOT CUTS AND 15-FOOT FILL EMBANKMENTS.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

THE PROJECT IS LOCATED ON A RELATIVELY FLAT PORTION OF THE GLACIATED LEXINGTON PENEPLAIN, IN AN AREA WHERE THIN TO MODERATELY THICK GLACIAL DRIFT overlies INTERBEDDED SHALE AND LIMESTONE BEDROCK, OF ORDOVICIAN AGE. LOW WET AREAS WERE OBSERVED IN THE VICINITIES OF STATIONS 52+00 TO 56+00, 65+00 TO 75+00, AND 132+00 TO 134+00.

EXPLORATION

EXPLORATORY BORINGS WERE MADE BY MEANS OF TRUCK-MOUNTED MECHANICAL SOIL AUGER AND HAND AUGER (IN DIFFICULT ACCESS AREAS), BETWEEN APRIL 2 AND 15, 1971. INCLUDED IN THIS REPORT ARE LOGS OF BORINGS MADE FOR THE STRUCTURE FOUNDATION INVESTIGATIONS ON THE PROJECT.

INVESTIGATIONAL FINDINGS













MATERIALS ENCOUNTERED ON THE PROJECT WERE PREDOMINANTLY COMPRISED OF SILT CLAYS (A-6a AND A-6b), WITH SANDY SILTS (A-4a AND A-4b) AND CLAYS (A-7-6), GENERALLY HAVING LOW MOISTURE CONTENTS AND MOISTURE CONTENTS IN THE LOWER PORTIONS OF THE PLASTIC RANGE.






FROST SUSCEPTIBLE SILT WAS ENCOUNTERED WITHIN THREE FEET BELOW PROPOSED GRADE AT STATION 221+00.

WET MATERIALS WERE ENCOUNTERED AT STATIONS 50+00, 53+00, 76+00 (WITH ORGANIC MATTER), 80+00, 91+50, 115+00, 141+00, 173+55, 174+05, AND 217+00.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS— 128

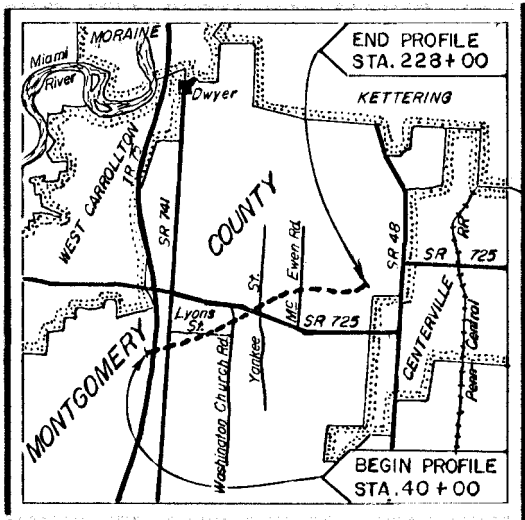
SAMPLES TESTED

	DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
	GRAVEL	A-1-a(0)	A-1-a	56	20	16	4	4	NP	NP	10	1
	GRAVEL WITH SAND	A-1-b(0)	A-1-b	46	20	23	6	5	NP	NP	15	3
	COARSE AND FINE SAND	-----	A-3a	14	31	28	13	14	NP	NP	20	1
	GRAVEL WITH SAND AND SILT	A-2-4(0)	A-2-4	33	19	20	17	11	NP	NP	14	1
	SANDY SILT	A-4(4)	A-4a	15	8	20	34	23	21	7	14	25
	SILT	A-4(8)	A-4b	2	1	8	64	25	24	4	19	10
	SILT AND CLAY	A-6(9)	A-6a	10	4	10	35	41	29	13	18	34
	SILTY CLAY	A-6(12)	A-6b	7	3	6	32	52	37	19	21	28
	CLAY	A-7-6(15)	A-7-6	5	2	6	33	54	46	24	26	21
	SHALE			VISUAL CLASSIFICATION								-
	LIMESTONE			VISUAL CLASSIFICATION								-
	BOULDERS OR COBBLES			VISUAL CLASSIFICATION								-

	TOPSOIL=X'=APPROXIMATE DEPTH.	●	WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.
	AUGER BORING-PLAN VIEW.	⊖	INDICATES A NON-PLASTIC MATERIAL WITH A HIGH WATER CONTENT.
	DRIVE SAMPLE AND/OR CORE BORING-PLAN VIEW.	—W	FREE WATER.
	AUGER BORING PLOTTED TO VERTICAL SCALE ONLY.	⊙	NUMBER OF BLOWS FOR "STANDARD PENETRATION" TEST. X=NUMBER OF BLOWS FOR FIRST 6 INCHES. Y=NUMBER OF BLOWS FOR SECOND 6 INCHES.
	DRIVE SAMPLE AND/OR CORE BORING PLOTTED TO VERTICAL SCALE ONLY.		
NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT.E.G. 15			

NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Fed. No. 1-675-



LOCATION MAP

Recon - J.S.M. - 3/19/71

Drilling - W.S.R. - 1/2/71, 1/12/71 to 1/15/71

SUMMARY OF SOIL TEST DATA

NOTE: NP SHOWN IN LIQUID AND PLASTICITY INDEX
COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC

* INDICATES SAMPLE TAKEN AT OR NEAR GRADE

STATION & OFFSET	DEPTH	% TO AGG.		% CS	% FS	% SILT	% CLAY	LL	PI	WC	SHTL CLASS
		FROM	TO								
46+00 CL	0.8-5.0	16	5	16	30	33	41	22	26		A-7-6
	3.0-8.0	31	10	17	27	15	18	5	12		A-4a
	8.0-11.0	9	11	25	35	20	NP	NP	14		A-4a
	11.0-17.0	16	11	20	36	17	17	5	12		A-4a
	17.0-22.0	15	10	17	39	19	18	5	12		A-4a
50+00 CL	22.0-24.0	16	8	13	35	28	20	7	11		A-4a
	0.5-3.0	4	3	9	49	36	35	16	25		A-6b
	3.0-7.0	14	7	25	36	20	25	10	25		A-4a
	7.0-12.0	35	27	27	5	6	NP	NP	16		A-1-b
53+00 CL	12.0-15.0	14	4	3	58	16	NP	NP	18		A-4b
	0.5-6.0	15	3	15	44	23	26	11	28		A-6a
	6.0-12.0	47	22	21	5	5	NP	NP	11		A-1-b
56+00 CL	12.0-15.0	4	2	4	49	41	26	12	19		A-6a
	0.5-4.0	14	8	10	29	45	26	13	13		A-6a
	4.0-8.0	8	9	32	35	13	NP	NP	15		A-4a
	8.0-12.0	11	8	17	38	27	19	7	13		A-4a
60+00 CL	12.0-15.0	10	8	17	38	27	19	7	13		A-4a
	0.5-6.0	24	4	3	31	33	32	15	22		A-6a
64+00 CL	0.5-6.0	18	5	12	32	33	43	25	24		A-7-6
	6.0-9.0	56	20	15	4	4	NP	NP	10		A-1-a
	9.0-10.0	15	7	10	36	32	24	11	14		A-6a
67+50 CL	0.5-5.0	29	8	14	25	24	34	18	23		A-6b
	5.0-9.0	33	19	20	17	11	NP	NP	14		A-2-4
	9.0-15.0	16	11	16	34	23	19	7	12		A-4a
71+00 CL	0.5-5.0	16	9	20	29	28	35	18	19		A-6b
	5.0-9.0	36	23	31	5	5	NP	NP	14		A-1-b
	9.0-12.0	41	24	25	4	5	NP	NP	14		A-1-b
76+00 CL	0.5-2.0	5	7	31	31	26	27	13	24		A-6a
	2.0-5.0	69	7	3	11	5	NP	NP	18		A-1-b
	5.0-10.0	2	2	19	66	11	NP	NP	22		A-4b
80+00 CL	0.8-4.0	6	8	33	34	19	21	7	23		A-4a
	4.0-7.0	3	1	12	75	9	NP	NP	20		A-4b
	7.0-10.0	5	9	47	32	7	NP	NP	17		A-4a
	10.0-14.0	0	0	5	81	14	NP	NP	21		A-4b
84+00 CL	0.5-4.0	5	3	11	37	44	42	23	23		A-7-6
	0.5-5.0	0	1	4	41	54	47	24	32		A-7-6
	5.0-8.0	2	2	9	52	35	32	14	28		A-6a
88+00 CL	8.0-14.0	0	0	25	68	7	NP	NP	22		A-4b
	0.5-5.0	0	0	5	50	45	27	9	20		A-4b
	5.0-9.0	0	0	1	38	61	29	13	23		A-6a
91+50 CL	9.0-10.0	0	0	1	71	28	19	4	19		A-4b
	0.5-5.0	6	4	10	32	48	36	17	20		A-6b
	5.0-10.0	0	0	1	56	43	25	10	19		A-4b
95+00 CL	0.5-5.0	0	0	0	0	0	0	0	0		A-6b
	5.0-10.0	0	0	0	0	0	0	0	0		A-4b
	0.5-4.0	0	1	4	39	56	29	13	23		A-6a
99+00 CL	6.0-10.0	0	0	0	32	68	35	18	20		A-6b
	0.5-4.0	5	1	2	40	52	36	18	20		A-6b
	4.0-8.0	0	0	1	32	67	39	19	22		A-6b
103+00 CL	8.0-10.0	0	0	0	57	43	25	10	15		A-4b
	0.5-5.0	0	2	1	33	64	39	19	19		A-6b
	5.0-9.0	0	0	0	46	54	29	12	18		A-6a
107+00 CL	9.0-10.0	0	0	0	32	69	37	19	22		A-6b
	0.5-5.0	4	1	2	38	58	39	20	23		A-6b
	5.0-10.0	0	0	0	38	62	32	16	18		A-6b

STATION & OFFSET	DEPTH	% TO AGG.		% CS	% FS	% SILT	% CLAY	LL	PI	WC	SHTL CLASS
		FROM	TO								
115+00 CL	0.5-5.0	2	3	27	37	31	26	8	23		A-4a
	5.0-10.0	1	1	5	39	54	33	15	22		A-6a
119+00 CL	0.5-4.0	0	1	5	33	61	42	18	25		A-7-6
	0.5-5.0	0	1	2	40	57	35	18	18		A-6b
123+00 CL	5.0-10.0	0	1	1	41	57	29	13	17		A-6a
	0.5-5.0	0	1	2	31	66	43	23	20		A-7-6
127+00 CL	5.0-12.0	0	0	0	32	68	39	21	23		A-6b
	12.0-15.0	3	4	3	24	66	40	20	24		A-6b
132+00 CL	5.0-5.0	0	1	3	39	57	56	34	31		A-7-6
	5.0-10.0	0	1	2	27	70	46	24	31		A-7-6
	10.0-15.0	0	0	1	28	71	41	20	23		A-7-6
134+00 CL	0.5-5.0	0	1	3	42	54	59	34	27		A-7-6
	5.0-10.0	0	1	1	31	67	43	21	27		A-7-6
	10.0-15.0	0	0	0	30	70	42	22	24		A-7-6
138+00 CL	0.5-5.0	7	2	4	27	60	51	25	29		A-7-6
	5.0-9.0	0	1	2	27	70	50	23	25		A-7-6
	9.0-15.0	0	0	1	42	57	39	17	23		A-6b
142+50 CL	0.5-4.0	0	1	9	51	39	43	19	25		A-7-6
	4.0-10.0	8	1	6	34	51	48	26	29		A-7-6
	10.0-15.0	0	0	0	33	67	40	21	24		A-6b
146+00 CL	0.5-5.0	0	0	5	43	52	41	23	26		A-7-6
	5.0-10.0	0	1	1	33	65	35	16	23		A-6b
	10.0-15.0	0	0	1	34	68	32	15	24		A-6a
147+30 CL	0.5-5.0	9	2	8	30	51	45	22	31		A-7-6
	5.0-10.0	10	7	15	48	20	19	5	11		A-4a
	10.0-15.0	6	4	8	31	51	30	11	22		A-6a
151+50 CL	0.5-5.0	17	9	18	34	22	27	13	13		A-6a
	5.0-10.0	22	10	18	31	18	18	6	12		A-4a
	0.5-6.0	16	8	16	31	29	28	13	13		A-6a
155+00 CL	6.0-11.0	14	9	17	35	24	34	21	13		A-6b
	11.0-14.0	8	6	12	38	36	26	13	12		A-6a
	0.5-5.0	12	9	17	33	29	23	10	18		A-4a
159+00 CL	5.0-10.0	20	10	19	30	21	19	6	12		A-4a
	10.0-13.0	11	9	17	37	26	21	8	10		A-4a
	13.0-16.0	0	2	3	38	57	32	15	15		A-6a
163+00 CL	0.5-5.0	10	6	12	36	36	26	11	14		A-6a
	5.0-10.0	4	4	8	35	49	28	12	17		A-6a
	10.0-15.0	0	0	5	49	46	25	9	19		A-6a
166+50 CL	0.5-5.0	9	5	16	36	34	30	13	22		A-6a
	5.0-10.0	14	4	9	31	42	30	13	14		A-6a
	10.0-13.0	10	5	9	35	41	29	13	16		A-6a
170+50 CL	13.0-17.0	9	6	12	37	36	24	11	12		A-6a
	0.5-6.0	0	1	8	37	54	40	21	25		A-6b
	6.0-11.0	4	4	8	37	47	29	12	16		A-6a
173+00 CL	11.0-15.0	10	6	12	33	39	25	11	13		A-6a
	15.0-21.0	7	4	8	37	44	28	11	17		A-6a
	0.5-6.0	0	3	23	42	32	33	14	27		A-6a
175+00 CL	6.0-10.0	23	10	16	29	22	20	8	11		A-4a
	10.0-15.0	32	7	14	26	21	20	7	10		A-4a
179+00 CL	0.5-4.0	8	4	15	31	42	39	20	26		A-6b
	4.0-10.5	27	9	14	30	20	21	9	9		A-4a
	0.5-3.0	5	2	6	39	48	44	22	22		A-7-6
183+00 CL	3.0-5.0	32	7	7	22	32	36	16	15		A-6b

STATION & OFFSET		DEPTH	%	%	%	%	%	LL	PI		SHTL
		FROM	TO	AGG.	CS	FS	SILT	CLAY		WC	CLASS
187+00	CL	0.5-2.0	14	6	5	24	51	38	18	20	A-6b
190+00	CL	0.5-2.0	27	7	10	19	37	48	24	26	A-7-6
194+00	CL	0.5-2.0	16	4	4	25	51	43	23	23	A-7-6
197+00	CL	0.5-5.0	0	2	15	37	46	37	21	23	A-6b
		5.0-7.0	52	5	4	14	25	32	15	13	A-6a
201+00	CL	0.5-5.0	10	7	20	32	31	28	13	15	A-6a
		5.0-11.0	12	8	20	32	28	23	10	12	A-4a
		11.0-15.0	13	7	14	33	33	26	13	9	A-6a
205+00	CL	0.5-5.0	24	8	7	21	40	32	15	11	A-6a
209+00	CL	0.5-3.0	13	6	3	18	60	38	16	20	A-6b
213+00	CL	0.3-4.0	7	2	1	14	76	40	17	21	A-6b
217+00	CL	0.5-4.0	7	13	21	24	35	39	19	21	A-6b
		4.0-6.0	14	31	28	13	14	NP	NP	20	A-3a
		6.0-11.5	28	9	15	27	21	20	7	8	A-4a
221+00	CL	0.5-4.0	3	1	8	51	37	24	10	17	A-4b
		4.0-7.0	12	7	16	38	27	22	10	12	A-4a
		7.0-8.0	25	6	4	22	43	33	14	16	A-6a
SUMMARY OF SOIL TEST DATA:											
141+06	82'LT	2.5-3.5	10	2	7	40	41	37	19	26	A-6b
		5.0-6.0	0	1	3	35	61	37	18	27	A-6b
		7.5-8.5	0	1	13	50	36	18	3	28	A-4b
		10.0-11.0	0	2	15	69	14	NP	NP	20	A-4b
		12.5-13.5	0	0	12	57	31	NP	NP	23	A-4b
		15.0-16.0	0	0	0	34	66	35	16	21	A-6b
		17.5-18.5	0	0	0	23	77	45	20	25	A-7-6
		20.0-21.0	0	0	0	25	75	39	16	26	A-6b
		25.0-26.0	0	0	0	59	41	37	15	28	A-6b
		30.0-31.0	0	0	0	31	69	35	16	27	A-6b
		35.0-36.0	0	0	0	26	74	39	19	29	A-6b
		40.0-41.0	0	0	0	31	69	35	14	28	A-6b
		45.0-46.0	0	0	0	28	72	37	17	28	A-6b
		50.0-51.0	0	0	0	32	68	37	18	29	A-6b
		55.0-56.0	46	6	10	20	18	21	8	12	A-4a
60.0-61.0	35	8	11	24	22	21	8	11	A-4a		
65.0-66.0	0	1	0	25	74	41	21	21	A-7-6		
70.0-71.0	0	1	1	22	76	41	20	22	A-7-6		
173+55	137'RT	2.5-3.5	4	4	8	41	43	39	17	37	A-6b
		5.0-6.0	2	1	4	46	47	41	21	27	A-7-6
		7.5-8.5	0	1	2	28	69	40	18	24	A-6b
		10.0-11.0	27	11	11	25	26	29	13	13	A-6b
		12.5-13.5	24	12	17	27	20	18	5	11	A-4a
		15.0-16.0	24	10	15	28	23	20	8	11	A-4a
		17.5-18.5	23	7	23	28	19	18	6	13	A-4a
		20.0-21.0	0	1	71	21	7	NP	NP	24	A-3a
		25.0-26.0	3	2	69	17	9	NP	NP	25	A-3a
		30.0-31.0	14	12	42	16	16	NP	NP	22	A-3a
174+05	84'LT	5.0-6.0	6	4	9	33	48	31	15	17	A-6a
		10.0-11.0	6	4	10	39	41	26	11	17	A-6a
		15.0-16.0	0	1	2	31	66	38	19	21	A-6b
		17.5-18.5	0	1	0	33	66	38	18	23	A-6b
		20.0-21.0	0	1	0	27	72	41	20	26	A-7-6
		22.5-23.5	0	0	0	26	74	44	20	25	A-4a
		25.0-26.0	22	9	16	32	21	19	1	12	A-4a
		27.5-28.5	27	10	15	29	19	18	5	6	A-4a
		30.0-31.0	19	10	17	30	24	20	8	10	A-4a
		32.5-33.5	26	8	14	29	23	20	7	10	A-4a
35.0-36.0	12	9	16	36	27	20	4	11	A-4a		
40.0-41.0	0	0	79	15	6	NP	NP	28	A-3a		


SUMMARY OF SOIL TEST DATA
NOTE: NP SHOWN IN LIQUID AND PLASTICITY INDEX
COLUMNS INDICATES THAT THE MATERIAL IS NON-PLASTIC
* INDICATES SAMPLE TAKEN AT OR NEAR GRADE

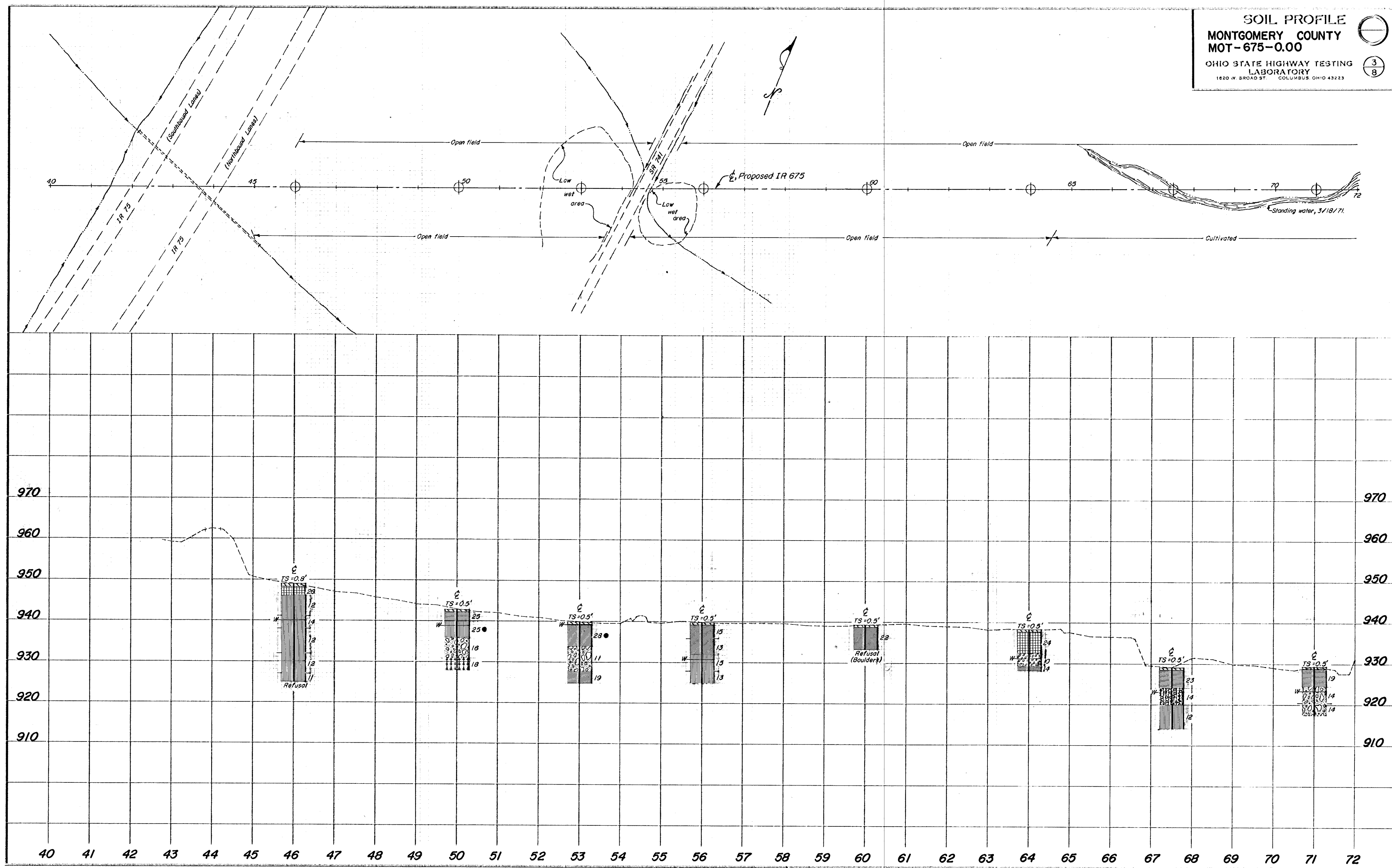
STATION & OFFSET		DEPTH	%	%	%	%	%	LL	PI	WC	SHTL
		FROM	TO	AGG.	CS	FS	SILT	CLAY			CLASS
46+00	CL	0.8-3.0	16	5	16	30	33	41	22	26	A-7.6
		3.0-8.0	31	10	17	27	15	18	5	12	A-4a
		8.0-11.0	9	11	25	35	20	NP	NP	14	A-4a
		11.0-17.0	16	11	20	36	17	17	5	12	A-4a
		17.0-22.0	15	10	17	39	19	18	5	12	A-4a
50+00	CL	22.0-24.0	16	8	13	35	28	20	7	11	A-4a
		0.5-3.0	4	3	8	49	36	35	16	25	A-6b
		3.0-7.0	14	7	23	36	20	25	10	25	A-4a
		7.0-12.0	35	27	27	5	6	NP	NP	16	A-1-b
		12.0-15.0	14	4	3	58	16	NP	NP	18	A-4b
53+00	CL	0.5-6.0	15	3	15	44	23	26	11	28	A-6a
		6.0-12.0	47	22	21	5	5	NP	NP	11	A-1-b
		12.0-15.0	4	2	4	49	41	26	12	19	A-6a
56+00	CL	0.5-4.0	14	7	12	36	31	25	11	15	A-6a
		4.0-8.0	8	8	10	29	45	26	13	13	A-6a
		8.0-12.0	11	9	32	35	13	NP	NP	15	A-4a
		12.0-15.0	10	8	17	38	27	19	7	13	A-4a
60+00	CL	0.5-6.0	24	4	8	31	33	32	15	22	A-6a
64+00	CL	0.5-6.0	18	5	12	32	33	43	25	24	A-7.6
		6.0-9.0	56	20	16	4	4	NP	NP	10	A-1-a
		9.0-10.0	15	7	10	36	32	24	11	14	A-6a
67+50	CL	0.5-5.0	29	8	14	25	24	34	18	23	A-6b
		5.0-9.0	33	19	20	17	11	NP	NP	14	A-2-4
		9.0-15.0	16	11	16	34	23	19	7	12	A-4a
71+00	CL	0.5-5.0	16	9	20	29	26	35	18	19	A-6b
		5.0-9.0	36	23	31	5	5	NP	NP	14	A-1-b
		9.0-12.0	41	24	25	4	5	NP	NP	14	A-1-b
76+00	CL	0.5-2.0	5	7	31	31	26	27	13	24	A-6a
		2.0-5.0	69	7	3	11	5	NP	NP	18	A-1-b
		5.0-10.0	2	2	19	66	11	NP	NP	22	A-4b
80+00	CL	0.8-4.0	6	8	33	34	19	21	7	23	A-4a
		4.0-7.0	3	1	12	75	9	NP	NP	20	A-4b
		7.0-10.0	5	9	47	32	7	NP	NP	17	A-4a
		10.0-14.0	0	0	5	81	14	NP	NP	21	A-4b
84+00	CL	0.5-4.0	5	3	11	37	44	42	23	23	A-7.6
88+00	CL	0.5-5.0	0	1	4	41	54	47	24	32	A-7.6
		5.0-8.0	2	2	9	52	35	32	14	28	A-6a
		8.0-14.0	0	0	25	68	7	NP	NP	22	A-4b
91+50	CL	0.5-5.0	0	0	5	50	45	27	9	20	A-4b
		5.0-9.0	0	0	1	38	61	29	13	23	A-6a
		9.0-10.0	0	0	1	71	28	19	4	19	A-4b
95+00	CL	0.5-5.0	6	4	10	32	48	36	17	20	A-6b
		5.0-10.0	0	0	1	56	43	25	10	19	A-4b
99+00	CL	0.5-6.0	0	1	4	39	56	29	13	23	A-6a
		6.0-10.0	0	0	0	32	68	35	18	20	A-6b
103+00	CL	0.5-4.0	5	1	2	40	52	36	18	20	A-6b
		4.0-8.0	0	0	1	32	87	39	19	22	A-6b
		8.0-10.0	0	0	0	57	43	25	10	15	A-4b
107+00	CL	0.5-5.0	0	2	1	33	64	39	19	19	A-6b
		5.0-9.0	0	0	0	48	54	29	12	18	A-6a
		9.0-10.0	0	0	0	32	68	37	19	22	A-6b
111+00	CL	0.5-5.0	4	1	2	35	58	39	20	23	A-6b
		5.0-10.0	0	0	0	38	62	32	16	18	A-6b

STATION & OFFSET		DEPTH	% AGG.		% CS	% FS	% SILT	% CLAY	LL	PI	WC	SHTL
			FROM	TO								CLASS
115+00	CL	0.5-5.0	2	3	27	37	31	26	8	23	A-4a	
		5.0-10.0	1	1	5	39	54	33	15	22	A-6a	
119+00	CL	0.5-4.0	0	1	5	33	61	42	18	25	A-7.6	
123+00	CL	0.5-5.0	0	1	2	40	57	35	18	18	A-6b	
		5.0-10.0	0	1	1	41	57	29	13	17	A-6a	
127+00	CL	0.5-6.0	0	1	2	31	66	43	23	20	A-7.6	
		6.0-12.0	0	0	0	32	68	39	21	23	A-6b	
		12.0-15.0	3	4	3	24	66	40	20	24	A-6b	
132+00	CL	5.0-5.0	0	1	3	39	57	56	34	31	A-7.6	
		5.0-10.0	0	1	2	27	70	46	24	31	A-7.6	
		10.0-15.0	0	0	1	28	71	41	20	23	A-7.6	
134+00	CL	0.5-5.0	0	1	3	42	54	59	34	27	A-7.6	
		5.0-10.0	0	1	1	31	67	43	21	27	A-7.6	
		10.0-15.0	0	0	0	30	70	42	22	24	A-7.6	
138+00	CL	0.5-5.0	7	2	4	27	60	51	25	29	A-7.6	
		5.0-9.0	0	1	2	27	70	50	23	25	A-7.6	
		9.0-15.0	0	0	1	42	57	39	17	23	A-6b	
142+50	CL	0.5-4.0	0	1	9	51	39	43	19	25	A-7.6	
		4.0-10.0	8	1	6	34	51	48	26	29	A-7.6	
		10.0-15.0	0	0	0	33	67	40	21	24	A-6b	
146+00	CL	0.5-5.0	0	0	5	43	52	41	23	26	A-7.6	
		5.0-10.0	0	1	1	33	65	35	16	23	A-6b	
		10.0-15.0	0	0	1	34	65	32	15	24	A-6a	
147+30	CL	0.5-5.0	9	2	8	30	51	45	22	31	A-7.6	
		5.0-10.0	10	7	15	48	20	19	5	11	A-4a	
		10.0-15.0	6	4	8	31	51	30	11	22	A-6a	
151+50	CL	0.5-5.0	17	9	18	34	22	27	13	13	A-6a *	
		5.0-10.0	22	10	19	31	18	18	6	12	A-4a	
155+00	CL	0.5-6.0	16	8	16	31	29	28	13	13	A-6a *	
		6.0-11.0	14	9	17	36	24	34	21	13	A-6b *	
		11.0-14.0	8	6	12	38	36	26	13	12	A-6a	
159+00	CL	0.5-5.0	12	9	17	33	29	23	10	18	A-4a	
		5.0-10.0	20	10	19	30	21	19	6	12	A-4a *	
		10.0-13.0	11	9	17	37	26	21	8	10	A-4a	
		13.0-16.0	0	2	3	38	67	32	15	15	A-6a	
163+00	CL	0.5-5.0	10	6	12	36	36	26	11	14	A-6a	
		5.0-10.0	4	4	8	35	49	28	12	17	A-6a *	
		10.0-15.0	0	0	5	49	46	25	9	19	A-6a	
166+50	CL	0.5-5.0	9	5	16	36	34	30	13	22	A-6a	
		5.0-10.0	14	4	9	31	42	30	13	14	A-6a	
		10.0-13.0	10	5	9	35	41	29	13	16	A-6a	
		13.0-17.0	9	6	12	37	36	24	11	12	A-6a	
170+50	CL	0.5-6.0	0	1	8	37	54	40	21	25	A-6b	
		6.0-11.0	4	4	8	37	47	29	12	16	A-6a	
		11.0-15.0	10	6	12	33	39	25	11	13	A-6a *	
		15.0-21.0	7	4	8	37	44	28	11	17	A-6a *	
175+00	CL	0.5-6.0	0	3	23	42	32	33	14	27	A-6a	
		6.0-10.0	23	10	16	29	22	20	8	11	A-4a *	
		10.0-15.0	32	7	14	26	21	20	7	10	A-4a	
179+00	CL	0.5-4.0	8	4	15	31	42	39	20	26	A-6b	
		4.0-10.5	27	9	14	30	20	21	9	9	A-4a	
183+00	CL	0.5-3.0	5	2	6	39	48	44	22	22	A-7.6	
		3.0-5.0	32	7	7	22	32	36	16	15	A-6b	

STATION & OFFSET		DEPTH		%	%	%	%	LL	PI		SHTL
		FROM	TO	AGG.	CS	FS	SILT	CLAY		WC	CLASS
187+00	CL	0.5-2.0		14	6	5	24	51	38	18	A-6b *
190+00	CL	0.5-2.0		27	7	10	19	37	48	24	A-7-6 *
194+00	CL	0.5-2.0		16	4	4	25	51	43	23	A-7-6
197+00	CL	0.5-5.0		0	2	15	37	46	37	21	A-6b
		5.0-7.0		52	5	4	14	25	32	15	A-6a
201+00	CL	0.5-5.0		10	7	20	32	31	28	13	A-6a *
		5.0-11.0		12	8	20	32	28	23	10	A-4a *
		11.0-15.0		13	7	14	33	33	26	13	A-6a
205+00	CL	0.5-5.0		24	8	7	21	40	32	15	A-6a
209+00	CL	0.5-3.0		13	6	3	18	60	38	16	A-6b *
213+00	CL	0.3-4.0		7	2	1	14	76	40	17	A-6b *
217+00	CL	0.5-4.0		7	13	21	24	35	39	19	A-6b
		4.0-6.0		14	31	28	13	14	NP	NP	A-3a
		6.0-11.5		28	9	15	27	21	20	7	A-4a *
221+00	CL	0.5-4.0		3	1	8	51	37	24	10	A-4b *
		4.0-7.0		12	7	16	38	27	22	10	A-4a *
		7.0-8.0		25	6	4	22	43	33	14	A-6a
SUMMARY OF SOIL TEST DATA:											
141+06	82'LT	2.5-3.5		10	2	7	40	41	37	19	A-6b
		5.0-6.0		0	1	3	35	61	37	18	A-6b
		7.5-8.5		0	1	13	50	36	18	3	A-4b
		10.0-11.0		0	2	15	69	14	NP	NP	A-4b
		12.5-13.5		0	0	12	57	31	NP	NP	A-4b
		15.0-16.0		0	0	0	34	66	35	16	A-6b
		17.5-18.5		0	0	0	23	77	45	20	A-7-6
		20.0-21.0		0	0	0	25	75	39	16	A-6b
		25.0-26.0		0	0	0	59	41	37	15	A-6b
		30.0-31.0		0	0	0	31	69	35	16	A-6b
		35.0-36.0		0	0	0	26	74	39	19	A-6b
		40.0-41.0		0	0	0	31	69	35	14	A-6a
		45.0-46.0		0	0	0	28	72	37	17	A-6b
		50.0-51.0		0	0	0	32	68	37	18	A-6b
		55.0-56.0		46	6	10	20	18	21	8	A-4a
		60.0-61.0		35	8	11	24	22	21	8	A-4a
		65.0-66.0		0	1	0	25	74	41	21	A-7-6
		70.0-71.0		0	1	1	22	76	41	20	A-7-6
173+55	137'RT	2.5-3.5		4	4	8	41	43	39	17	A-6b
		5.0-6.0		2	1	4	46	47	41	21	A-7-6
		7.5-8.5		0	1	2	28	69	40	18	A-6b
		10.0-11.0		27	11	11	25	26	29	13	A-6a
		12.5-13.5		24	12	17	27	20	18	5	A-4a
		15.0-16.0		24	10	15	28	23	20	8	A-4a
		17.5-18.5		23	7	23	28	19	18	6	A-4a
		20.0-21.0		0	1	71	21	7	NP	NP	A-3a
		25.0-26.0		3	2	69	17	9	NP	NP	A-3a
		30.0-31.0		14	12	42	16	16	NP	NP	A-3a
174+05	84'LT	5.0-6.0		6	4	9	33	48	31	15	A-6a
		10.0-11.0		6	4	10	39	41	26	11	A-6a
		15.0-16.0		0	1	2	31	66	38	19	A-6b
		17.5-18.5		0	1	0	33	66	38	18	A-6b
		20.0-21.0		0	1	0	27	72	41	20	A-7-6
		22.5-23.5		0	0	0	26	74	44	20	A-7-6
		25.0-26.0		22	9	16	32	21	19	1	A-4a
		27.5-28.5		27	10	15	29	19	18	5	A-4a
		30.0-31.0		19	10	17	30	24	20	8	A-4a
		32.5-33.5		26	8	14	29	23	20	7	A-4a
		35.0-36.0		12	9	16	36	27	20	4	A-4a
		40.0-41.0		0	0	79	15	6	NP	NP	A-3a
		45.0-46.0		6	12	55	18	9	NP	NP	A-3a

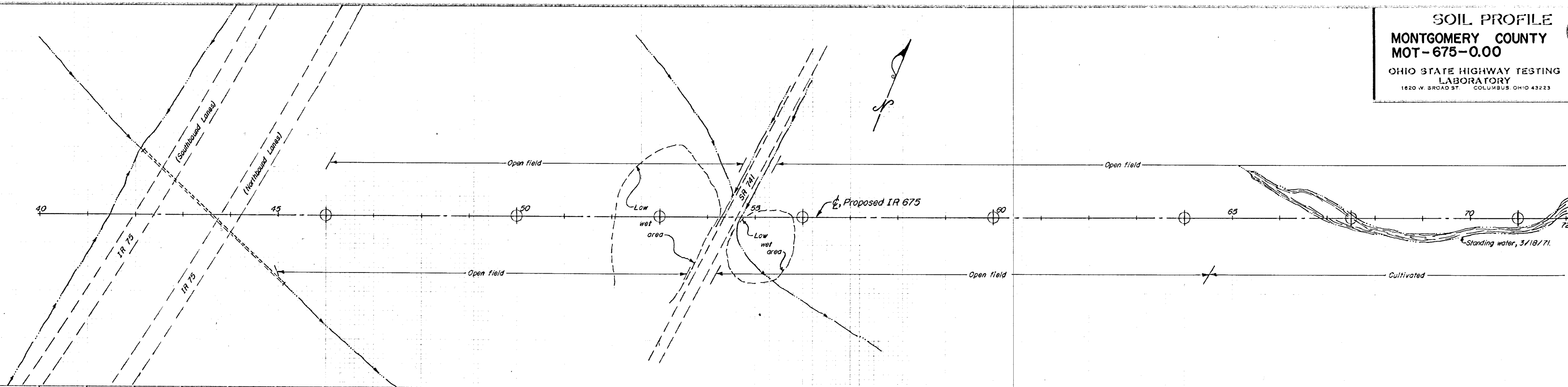
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MONTGOMERY COUNTY
MOT-675-0.00
OHIO STATE HIGHWAY TESTING
LABORATORY
1620 W. BROAD ST. COLUMBUS, OHIO 43223

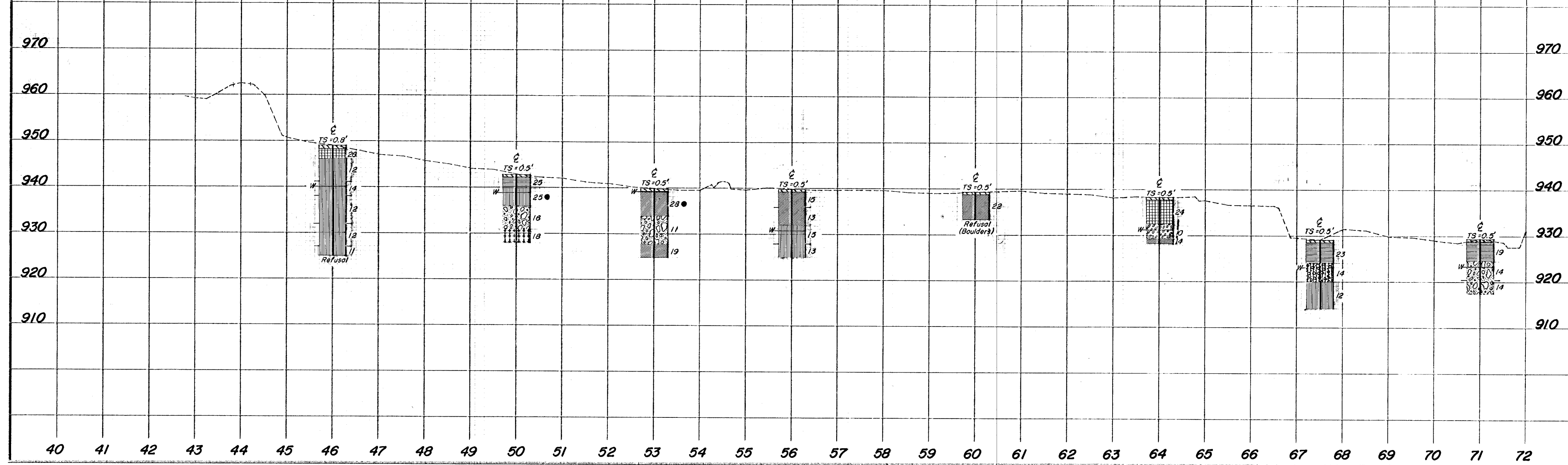

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SOIL PROFILE
MONTGOMERY COUNTY
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SOIL PROFILE

MONTGOMERY COUNTY

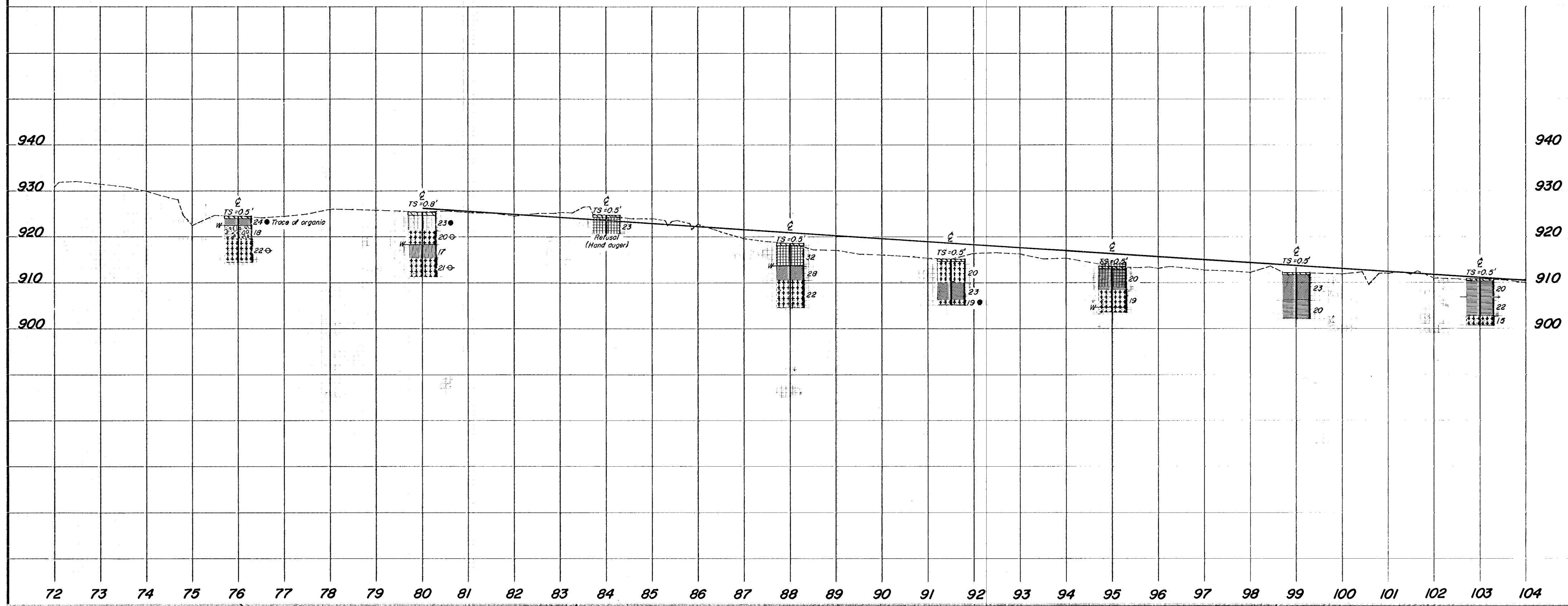
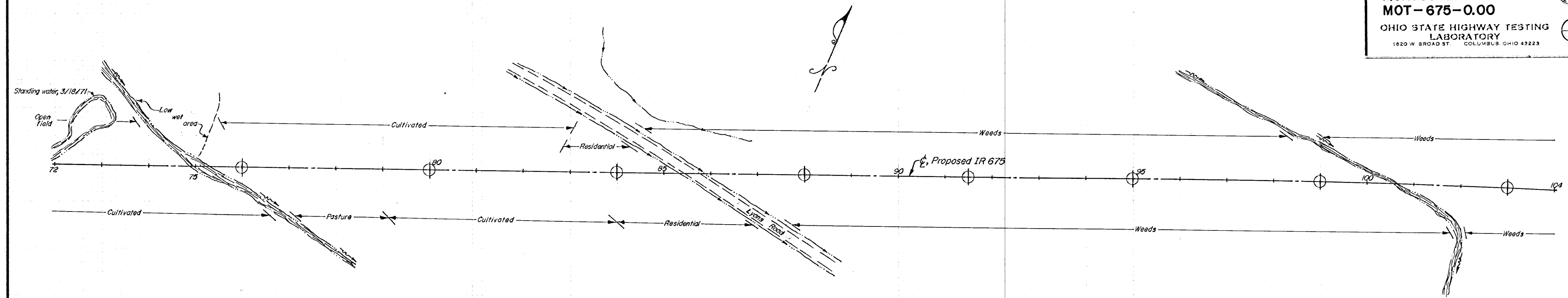
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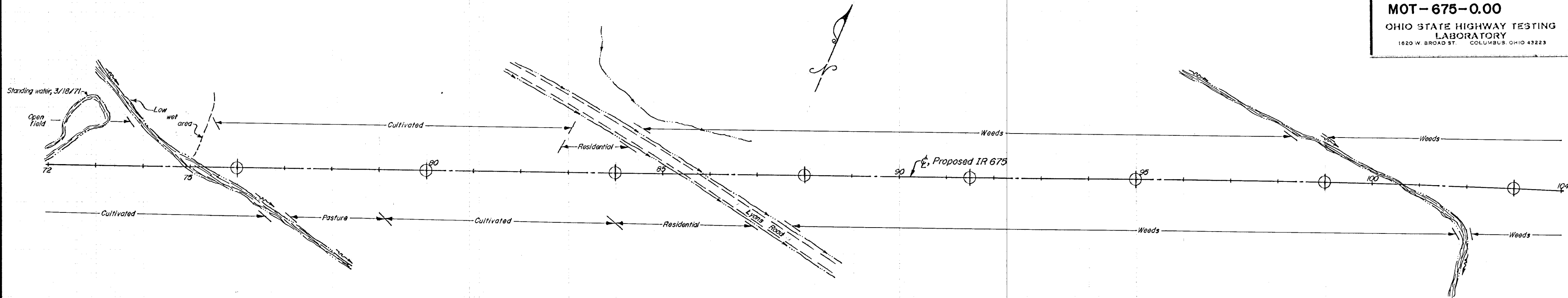


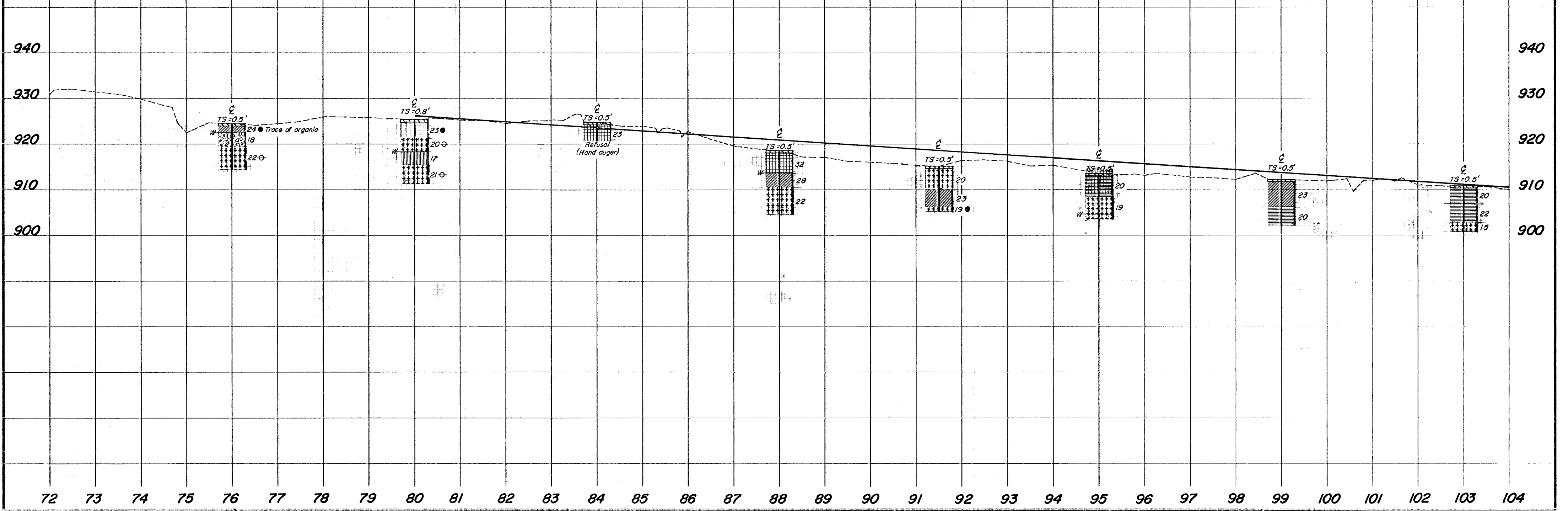
SOIL PROFILE
MONTGOMERY COUNTY
MOT-675-0.00

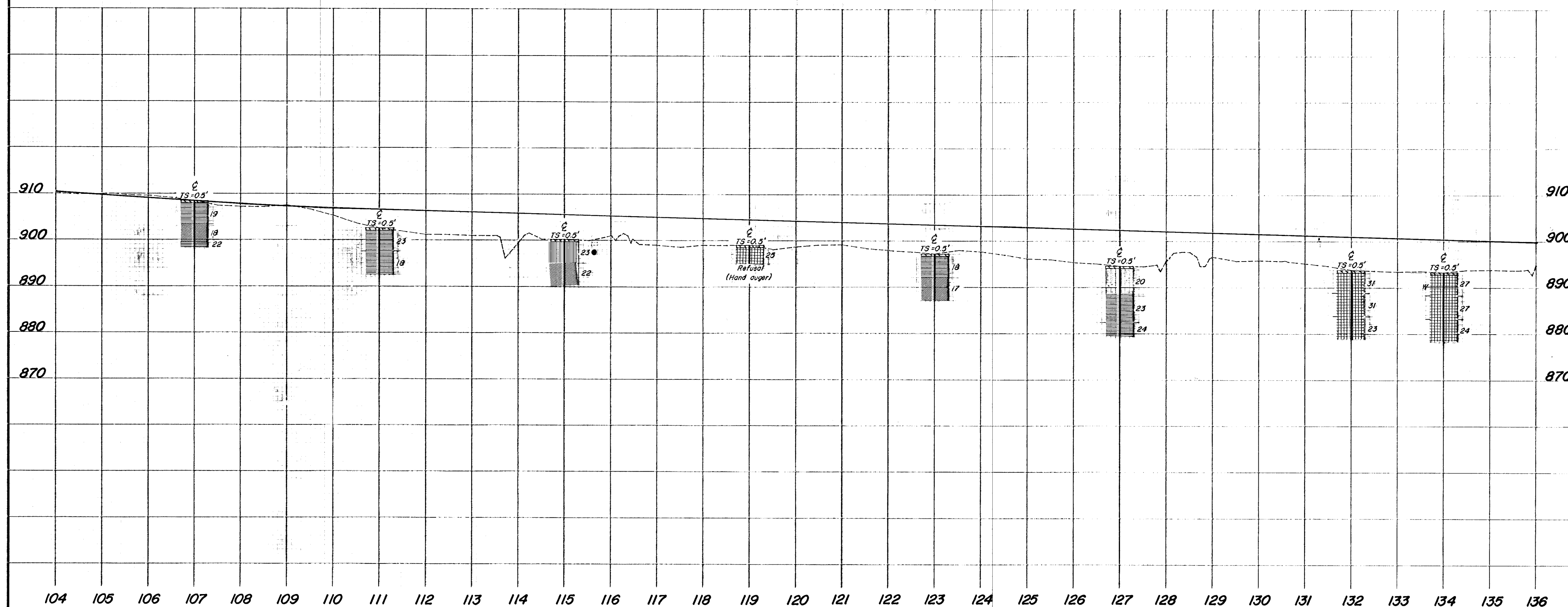
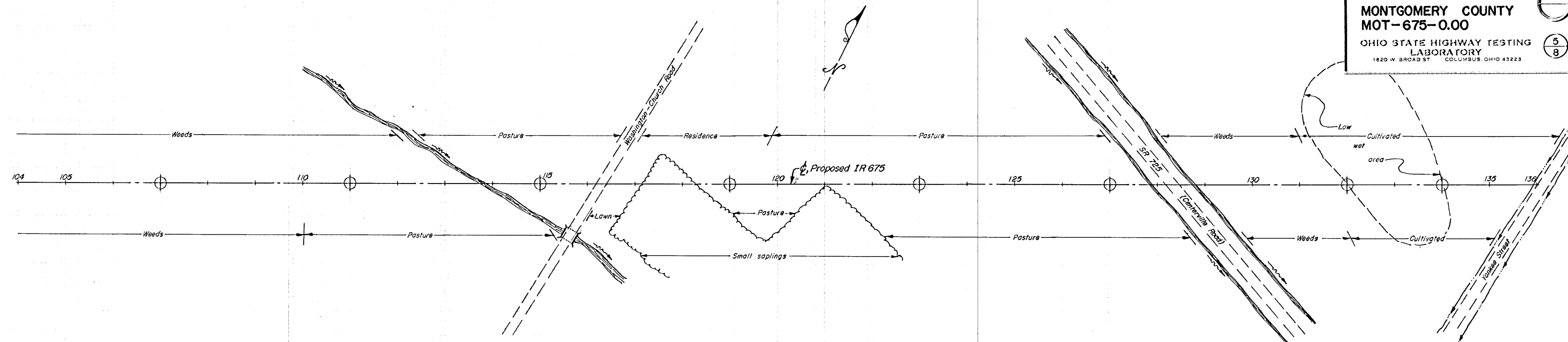
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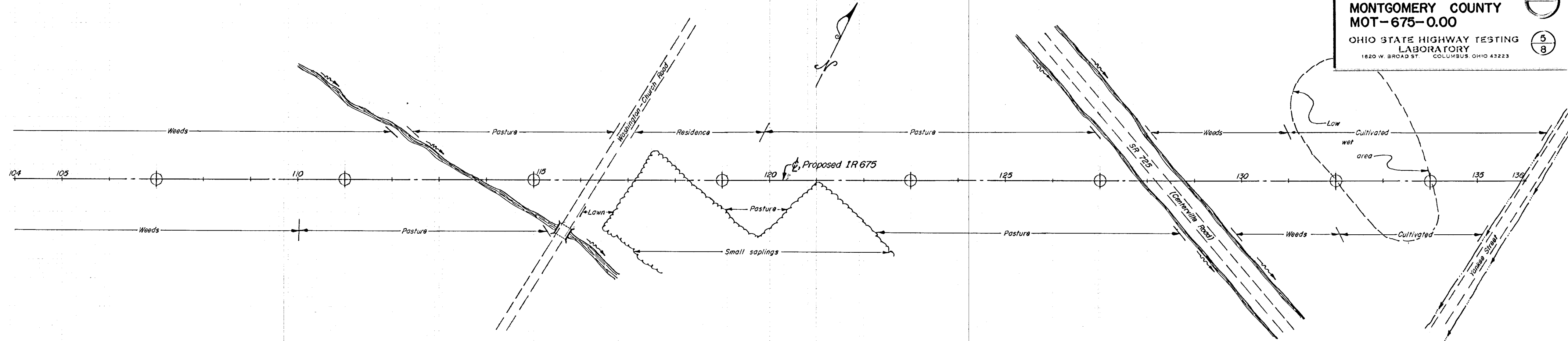
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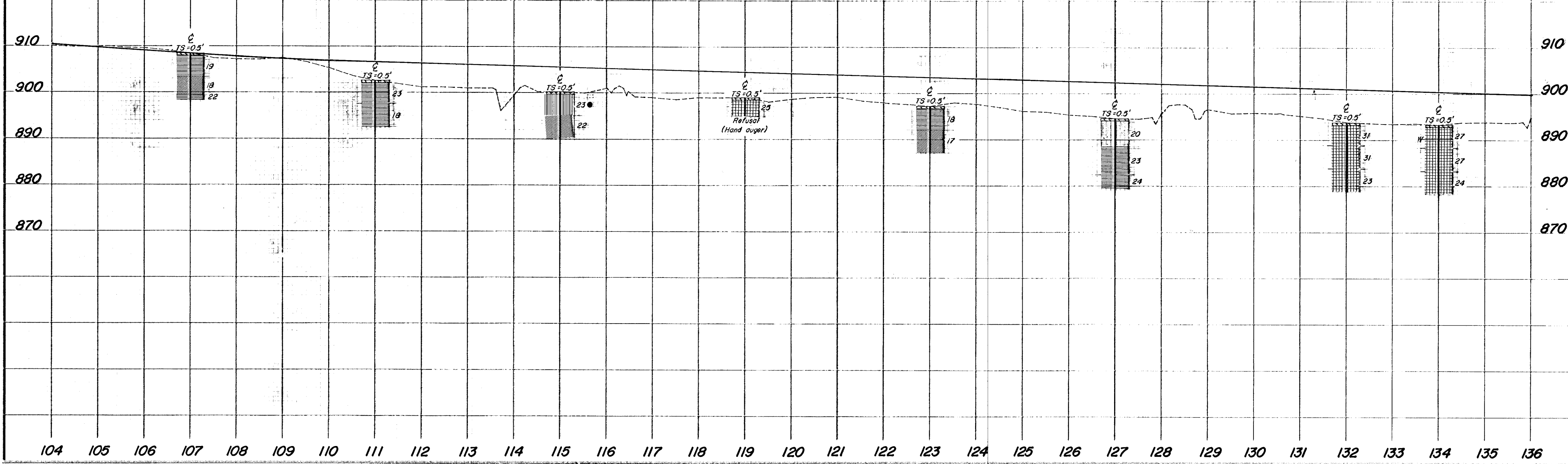






A circle with a horizontal line through its center, representing the fraction $\frac{5}{8}$.

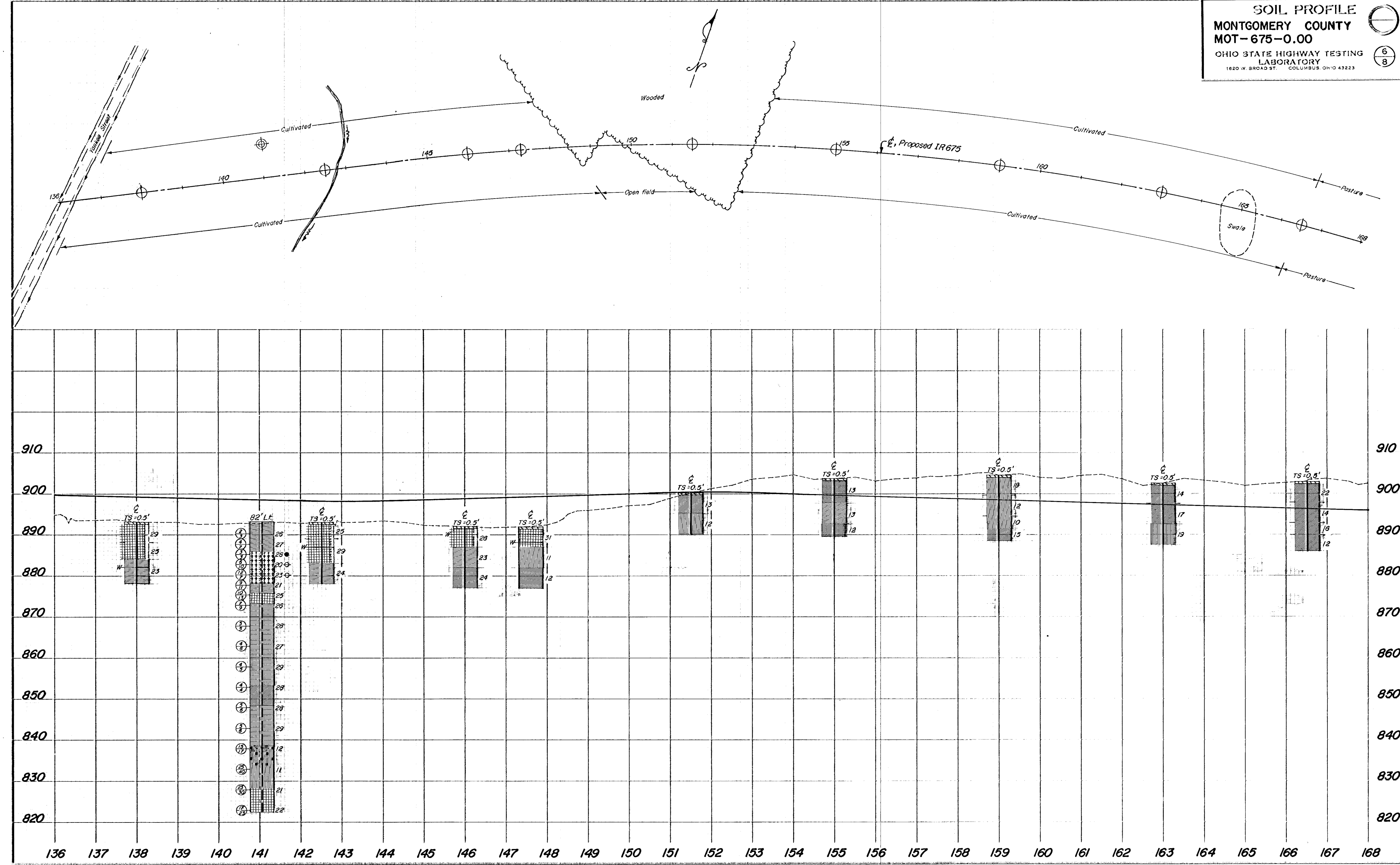
$$\frac{5}{8}$$




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