1961	Job No. 08363	County MONTGOMERY
Year	Changes	013888 Project Identification MOT-49-14.19

File No. FEP-92 4K-21 Proj. No.

Begin Sta. 724+00 End Sta. 935+00 Length 4.01 Miles

	RECON	AUGER	CORE	DRIVE ROD	RESISTIVITY
By	N.P.L.	L.M.D., F.S., J.R.F.			
Dates	3/14-15/61				
No. of Holes or Soundings		66			
Footage		508.0			
Samples Tested		171			

Drafting By
R.L.B.
Completion Date
Drafting Hours 55
Topo Sheet

☐ Samples Accounted For

Transmittal Date 4-28-61 No. of Tracings 5 Filed with year 4-M-97

Revisions Remarks FET 97

Refer to

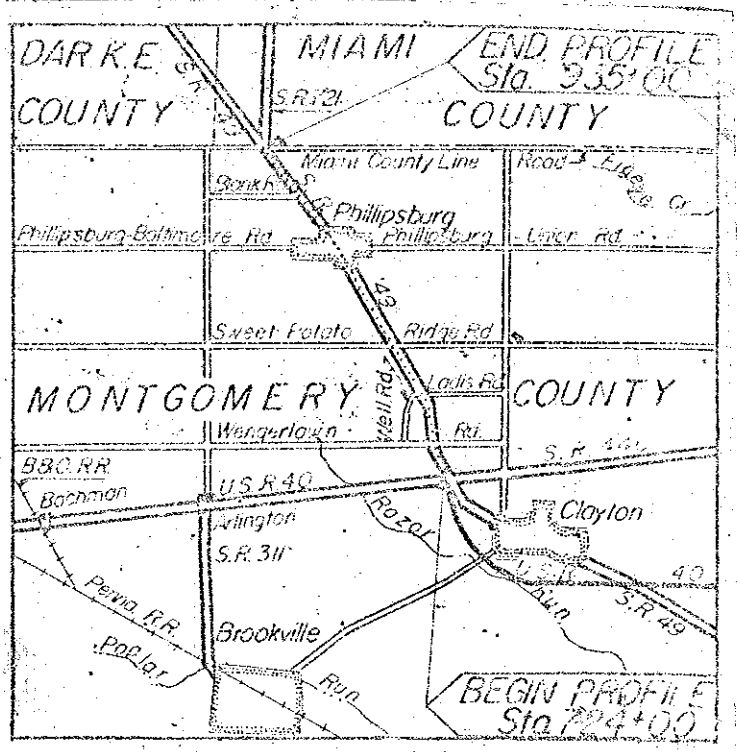
DO NOT WRITE IN THIS SPACE

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
4.01	66	508.0	171	—	—	—	—	—	—

* See Reverse Side

TOTAL SAMPLES					
Samples VOIDED	Auger	Drive	Samples USED	Auger	Drive

TOTAL MILEAGE		
Alignment	Stations From——To	Mileage



PLACE

013888

FIELD BORING LOG

1000.6

County, Route No., Section MAT - 49 - 14.19

Station 724+60 Offset 20 RT Elev. ?

Date 3/27/61 Water Elev. -6

Crew J. FERRAND, D. SHAW Equipment 7A - 10"

E. HARTLINE

Drafting

Depth Feet	Field Number	Description
0.0 0.5		BASE COURSE
4.0	1F 12	BR CLAY SILT W/ LITTLE GRAVEL
5		
4.0	2F 12	BR CLAY SILT W/ SOME GRAVEL WET AT 6.0 FT.
10		HOLE COMPLETE STAYED OPEN MOVED HOLE TO GET OFF BLACK TOP.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

999.5

FIELD BORING LOG

County, Route No., Section MOT - 49 - 1419

Station 7284+10 Offset 15 RT Elev. ?

Date 3/27/61 Water Elev. —

Crew J.F. FDS, RH Equipment T.H. 100

Drafting

Depth Feet	Field Number	Description
0.0-5.5		BORING NAME
A-4	3F	BR CLAYSILT W/ LITTLE GRAVEL
5	11	
A-4	11 4F	BR CLAY SILT W/ LITTLE GRAVEL
A-6	5F 12	BR CLAYSILT W/ SOME GRAVEL HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

992.2

County, Route No., Section MOT - 49 - 1419

Station 732+00 Offset 15 LT Elev. 8

Date 3/27/61 Water Elev. -5.0

Crew JF, FDS, RH Equipment TA - 100

Drafting

Depth Feet	Field Number	Description
0.0 - 0.5		Bore hole
4a	6F 24	BY CLAY SILT w/ LITTLE GRAVEL
6a	7F 26	CLAY SILT w/ LITTLE GRAVEL, MOIST
4a	8F 15	GY SANDY SILT w/ LITTLE GRAVEL WET
4a	9F 10	GY CLAY SILT w/ SOME GRAVEL
10		HOLE COMPLETE CAVED AT 5.5
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

992.4

County, Route No., Section D07-49-1419

Station 7354 00 Offset 15 LT Elev. R

Date 3/22/61 Water Elev. -4.0

Crew JF, FDS, RH Equipment TA-107

Drafting

Depth Feet	Field Number	Description
0.0 0.5		BROWN MUCK
0.5	1"E 21	BR CLAY SILT
6.0	133	BR CLAY SILT W/ SOME GRAVEL MOIST
2.4	12 12F	GR SANDY GRAVEL WET
4.6	13F	GR CLAY SILT W/ SOME GRAVEL DENSE ~~HOLE COMPLETE~~ CAVED AT 6.0 & REFUSAL BOULDER
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

997.9

County, Route No., Section MOT - 49 - 14.18

Station 740+00 Offset 5 RT Elev. 8

Date 3/22/61 Water Elev. ---

Crew JE, FDS, RH Equipment TA-10"

Drafting		

Depth Feet	Field Number	Description
0.0-.25		BERM WORK
4a	14F 15	BR CLAY SILT W LITTLE GRAVEL & FEW BOULDERS DENSE
4a	11 15F	BR CLAY SILT W/ LITTLE GRAVEL W/ BOULDERS. 2 1/4 INCHES IN DIA.
4a	16A	GY CLAY SILT W/ LITTLE GRAVEL. HOLE COMPLETE STAYED OPEN.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

~~999.8~~

County, Route No., Section MIS - 49 - 14.19 1002.3

Station 740+00 Offset 10 RT Elev. 8

Date 3/27/6 Water Elev.

Crew J.F., F.D.S., R.H. Equipment 7 1/2" 16"

Drafting

Depth Feet	Field Number	Description
0.0-.95		BEGIN LOGS
4a	17F 12	BR CLAY SILT W/LITTLE GRAVEL DENSE
5 4a	18F 13	BR CLAY SILT W/LITTLE GRAVEL & BOULDERS
4a 10	19F 11	DARK BR CLAY SILT W/LITTLE GRAVEL
4a 15	20F 11	BROWNISH GR CLAY SILT W/LITTLE GRAVEL & BOULDERS DENSE
	↑	HOLE COMPLETE STAYED OPEN
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1009.8

County, Route No., Section MOT - 49 - 14.19

Station 243+90 Offset 15 LT Elev. 8

Date 3/27/61 Water Elev. (-8.0)

Crew J.F., F.D.S., R.H. Equipment 7H - 10"

Drafting		

Depth Feet	Field Number	Description
0.0-0.5		BOX IN ASPH.
4.0	215	BR CLAY SILT W/ LITTLE GRAVEL
7-6	26 225F	BR CLAY SILT W/ LITTLE GRAVEL PLASTIC
6.0	225 26	BR TO GR CLAY SILT W/ SOME GRAVEL BOULDERS MOIST
1-0 10	14 225F	BR SANDY GRAVEL WET
	↑	HOLE CONTINUE CAVED AT 9.0
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1001.2

County, Route No., Section [illegible] 109 - [illegible]

Station 24+00 Offset 15 RT Elev. [illegible]

Date 3/27/61 Water Elev. -8.0

Crew JE, FDS, RH Equipment 7 [illegible]

Depth Feet	Field Number	Description	Drafting
0.0-0.5		Brown [illegible]	
4a	25F 17	Br Clay Silt	
5			
4a	26F 23	Br Clay Silt w/ trace Gravel	
1-a 10	27F 13	Br Sandy Gravelly Boulders	
		Hole Complete Caved at 9.0	
15			
20			
25			
30			

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1007.6

County, Route No., Section 307 - 49 - 14.9

Station 75+00 Offset 15 RT Elev. E

Date 3/22/61 Water Elev. —

Crew J-C, FDS, RH Equipment TA-10H

Drafting

Depth Feet	Field Number	Description
0.0-0.5		Berm mat'l
6b	IPF 23	Br clay silt w/ little gravel
6a	39E 19	Br clay silt w/ little gravel.
4a	3 M	Brownish gr clay silt w/ some gravel.
10	↑	Hole complete stayed open.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1012.2

County, Route No., Section MO - 49 - 1419

Station 756+00 Offset 15 RT Elev. E

Date 3/28/61 Water Elev.

Crew JF, EDS, RH Equipment TA - 10"

Drafting		

Depth Feet	Field Number	Description
0.0-.05		Bent in mat'l
AL	31F 13	Br & Gr clay silt w/ little gravel
AL	12 32F	Br clay silt w/ some gravel
10	↑	Hole compl[illegible] open
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1016.2

County, Route No., Section [illegible]

Station 76 [illegible] Offset 15 RT Elev. [illegible]

Date 3/28/61 Water Elev. [illegible]

Crew [illegible] Equipment [illegible]

Depth Feet	Field Number	Description	Drafting
00-05		Bedrock weathered	
4a	3 3 F 11	Br clay shale with little gravel	
5			
4a	14 3 4 F	Br clay shale with little gravel & few boulders.	
4a	10 F	Brown silty clay shale with little gravel.	
10	↑	Hole complete stayed open	
15			
20			
25			
30			

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 10184

County, Route No., Section MOT - 49 - 1419

Station 763+00 Offset ℄ Elev. ℄

Date 3/28/61 Water Elev. —

Crew JF, FDS, RH Equipment TA - 100

Drafting

Depth Feet	Field Number	Description
0.0-0.5		Rock on mat'l
7.6	36K	Br clay silt w/ large gravel
5	26	
6.0	3P7	Br clay silt w/ some gravel
4.6	3Y9	Br clay silt w/ some gravel
10	11	Dens
	↑	Hole complete stakedown
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1016.5

County, Route No., Section MAT 49 - 1419

Station 766+00 Offset 15 Rt Elev. 8

Date 3/28/66 Water Elev.

Crew J.K., E.D.S., R.H. Equipment TD 20

Drafting

Depth Feet	Field Number	Description
0.0-0.5		Bkgr. crush
Aa	32F/2	Br clay s.i. w/ limed gravel
5		
Aa	13	Br/Gy clay silty w/ lime gravel dense
Aa	4/13	Dark br clay s.i. w/ some gravel dense
10		Hole caved in & stayed open.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1013.3

County, Route No., Section MIT - 49 - 1010

Station 770+00 Offset 15 RT Elev. 2

Date 3/28/66 Water Elev.

Crew JF, FDS, RH Equipment IH - 104

Drafting

Depth Feet	Field Number	Description
0.0-0.5		BOX OF MATL
1.0	4	FILL. DARK BRN LAYER SILT W/LITTLE GRAVEL
4.0	12 4.3	BR CLAY SILT W/LITTLE GRAVEL. DENSE.
5		
8.0	11 4.4	BROWNISH GR CLAY SILT. DENSE W/LITTLE GRAVEL & FEW BOULDERS.
10		
10.0	11 5.5	WET SAND & GRAVEL
		HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1019.1

County, Route No., Section [illegible]

Station 774+00 Offset [illegible] Elev. [illegible]

Date 3/28/01 Water Elev. —

Crew [illegible] Equipment [illegible]

Drafting		

Depth Feet	Field Number	Description
00-05		BROWN MOPL
46	1,2 / 6 F	BR CLAY SILT W/ SOME GRAVEL DENSE
2-4	4 / 8	BR CLAY SILT W/ SOME GRAVEL BOULDERS MOIST
46	11 / 8 F	GR CLAY SILT W/ SOME GRAVEL DENSE
10	↑	HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1019.9

County, Route No., Section [illegible] 419 - 14.19

Station 778+00 Offset 15 RT Elev. [illegible]

Date 3/23/61 Water Elev. - 6.0

Crew [illegible], FDS, RH Equipment [illegible]

Drafting		

Depth Feet	Field Number	Description
0.0-0.5		BEGIN WORK
0.5	4 SF 23	BR CLAY SILT W/ LITTLE GRAVEL
4.0	5 SF 16	BR CLAY SILT W/ LITTLE GRAVEL & FEW BOULDERS.
6.0	5 B	DARK BR CLAY SILT W/ LITTLE GRAVEL
10	↑	HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1021.1

County, Route No., Section [illegible] - 49 - 14.19

Station 78+14 ℄ Offset 15 RT Elev. [illegible]

Date 3/28/61 Water Elev.

Crew JF, FDS, RH Equipment 7A - 1011

Drafting

Depth Feet	Field Number	Description
0.0-0.5		BEGIN IMPT'L
4a	12 SPT	BR CLAY SILT w/ little to Gravel
5		
4a	13 SPT	BRN CLAY SILT w/ LITTLE GRAVEL & BOULDERS.
4a	14 SPT	DARK BR CLAY SILT w/ LITTLE GRAVEL DENSE
10		HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1023.5

County, Route No., Section MOT-49-1419

Station 285+00 Offset 15 RT Elev. E

Date 3/28/61 Water Elev.

Crew JF, FDS, RH Equipment TA-1.0"

Drafting

Depth Feet	Field Number	Description
0.0-0.5		Bex in ROAD'L
6a	551 25	BR CLAY SILT W/ LITTLE GRAVEL
5 4a	552	SANDY CLAY SILT W/ GRAVEL
4a	200	BR CLAY SILT W/ GRAVEL
4a	5872	DARK BR CLAY SILT, W/ LITTLE GRAVEL
10		NOTE COMPLETE STANDARD
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 10257

County, Route No., Section MOT-49-1419

Station 789+00 Offset 15 RT Elev. E

Date 3/28/61 Water Elev.

Crew JF, FDS, RH Equipment TH-10"

Drafting		

Depth Feet	Field Number	Description
0.0 0.5		Bar m [illegible]
4.0	14 Sgr	By [illegible]
	↑	Refusal large Boulders by hole Drilled 2 Holes 7 and 10 [illegible] 7.0 refusal
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

102812

County, Route No., Section MUT - 29 - 14.19

Station 792+85 Offset 15 LT Elev. ?

Date 3/28/11 Water Elev. -9.0

Crew JF, FDS, RH Equipment TR-10"

Drafting

Depth Feet	Field Number	Description
0.0-0.5		~~Berm Mat'l~~
5a	60F 17	BRY GY CLAY SILT W/ LITTLE GRAVEL DENSE
5a	12 6/F	BR CLAY SILT W/ LITTLE GRAVEL DENSE
7-10	15 6SF	SAND & GRAVEL WET.
	↑	Note complete cased @ 9.0 move hole wires
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1029.7

County, Route No., Section MAT - 99 - 1.41/.9

Station 797+00 Offset 15 LT Elev. ±

Date 3/21/6 Water Elev.

Crew JF, FDS, RH Equipment TA-10"

Drafting

Depth Feet	Field Number	Description
0.0-5		BOX MATL
6.0	26 65F	BR CLAY [illegible]
5		
10.0	16 64F	BR CLAY [illegible]
14.0	10	BR CLAY [illegible] GRAVEL. BASE HOLE COMPLETE SLIVED OPEN.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1031.1

County, Route No., Section MOT - 49 - 1415

Station 801+60 Offset 15 LT Elev. E

Date 3/28/61 Water Elev.

Crew JE, FRS, RH Equipment TA - 10"

Drafting		

Depth Feet	Field Number	Description
0.0-0.5		BERM MAT'L
6b	66F 28	BR CLAY SILT W/ LITTLE GRAVEL
5		
5a	67F 11	BR CLAY SILT W/ SOME GRAVEL - DENSE
10		HOLE COMPLETE STAYED OPEN
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1034.5

County, Route No., Section [illegible]

Station 8 05+00 Offset 15 RT Elev. [illegible]

Date 3/28/61 Water Elev. —

Crew [illegible] Equipment TA 10"

Drafting		

Depth Feet	Field Number	Description
00-05		Brown [illegible]
6a	68F 25	Bry Gr Clay Silt
40	68F 11	Br Clay Silty w/ Some Gravel Dense
10		Hole complete Sayed open
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1035.6

County, Route No., Section [illegible]

Station 89+00 Offset 15 RT Elev. [illegible]

Date 3/28/61 Water Elev. —

Crew [illegible], F.D.S., V.S.H. Equipment [illegible]

Drafting

Depth Feet	Field Number	Description
0.0-0.5		Begin [illegible]
4.0	70F B	Br clay silt w/ little gravel
5		
4.0	71F B	Br clay silt w/ little gravel & few boulders dense
10		Hole complete stayed open
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1036.9

County, Route No., Section Met-49-14.19

Station 812+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW Equipment TA

JM

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4a 5	45Y 14	Brn Clay Till w/gravel
4b 10	46Y 25	Brn & Gray Clay Till w/gravel
		Complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1038.4

County, Route No., Section: Mot-49-14.19

Station: 816+00 Offset: 15' Rt Elev.:

Date: 3/28/61 Water Elev.:

Crew: FS MW JM Equipment: TA

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6a	43Y 29	Brn & Gray clay till w/gravel
5		
8a	44Y 14	Brn sandy clay till w/gravel
10		Complete.
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1037.6

County, Route No., Section Mot-49-14,19

Station 820+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW Equipment TA

JM

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6.0- 5	41Y 26	Brn & Gray clay till w/ gravel
4.0-	42Y 12	Brn Sandy till w/ gravel
10		Complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1039.2

County, Route No., Section Mat - 45 - 14.18

Station 824+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew FC MW JM Equipment JA

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6a	38Y 28	Ban & Gray clay w/ gravel
24	39Y 25	Ban & Gray sandy clay till w/ gravel. wet
26	40Y 18	Ban sandy till w/ gravel
10	↑↑	Complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1039.4

County, Route No., Section Mot-49-14.19

Station 82+00 Offset 15' Rt Elev.

Date 3/25/61 Water Elev.

Crew FS MW Equipment TA

VM

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4.0	35	BRN & Gray sandy Till w/ gravel
6.0	36 28	BRN & Gray Clay Till w/ gravel Moist
4.0	37	BRN Sandy Clay w/ gravel - dry
		Ref. Bed Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1039, D

County, Route No., Section: Mot 49-14,19

Station: 832+00 Offset: 15' Rt Elev.:

Date: 3/28/61 Water Elev.: =?

Crew: FS MW JM Equipment: TA

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4a	38-Y	Brn Clay till w/gravel
5	12	
6a	38-Y	Brn Clay till w/ Lime stone Freq
4a	34-Y	Brn+Gray Sandy Till w/ gravel
10		complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1039.4

County, Route No., Section Mot-49-14,19

Station 836+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW Equipment 1A

VM

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4.0	30Y 14	Brn Clay Till w/ gravel Moist
4.0	31 14	Brn Clay Till w/ gravel
		RoF - Bed Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1040.2

County, Route No., Section Mon-49-14.19

Station 940+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew F.S. MW Equipment TA

JM

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4a	28Y 19	Brn clay fill w/ gravel - Moist
5		
4a	2 66	Brn & Gray clay fill - Moist
		Ref. - Bed Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1039.1

County, Route No., Section DOT - 119 - 14.19

Station 844+50 Offset 28 LT Elev. ℄

Date 3/28/61 Water Elev.

Crew J-K, L-O.S., R-E Equipment TD 10"

Drafting

Depth Feet	Field Number	Description
00-05		BELOW MAT
4a	77B	BY CLAY SILT W/ LITTLE GRAVEL DAMP
4a	78B	BY CLAY SILT W/ LITTLE GRAVEL DENSE
		REFUSAL ROCK, STAYED OPEN
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1038.3

County, Route No., Section MOT - 49 - 1410

Station 849+00 Offset 20 LT Elev. 2

Date 3/28/61 Water Elev.

Crew JF, DS, RH Equipment TA/10"

Drafting		

Depth Feet	Field Number	Description
00-05		TOP SOIL IN CHARGE OF YARD.
46	72 F 15	BROWN SILT W/ SOME GRAVEL DENSE
5	↑	REFUSAL ROCK STAYED OPEN.
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1037.2

County, Route No., Section DIST. 4 - 1418

Station 851+91 Offset 2 RT Elev. Z

Date 7/28/61 Water Elev. —

Crew JF, FDS, RH Equipment 7D-10"

Depth Feet	Field Number	Description	Drafting
0.0-0.5		TOPSOIL in edge of yard	
	73F 15	Brown clay sand w/ little gravel Dense	
5	↑	Refusal / Rock. Stayed open	
10			
15			
20			
25			
30			

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1035.7

County, Route No., Section [illegible] - 49 - 1419

Station 457+75 Offset [illegible] Elev. [illegible]

Date 3/28/61 Water Elev.

Crew [illegible] Equipment

Drafting

Depth Feet	Field Number	Description
0.0-0.5		TOPSOIL IN EDGE OF YARD
	24	BR CLAY [illegible] W/ [illegible] GRAVEL
5		REFUSAL ROCK STAYED OPEN.
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1035.4

County, Route No., Section DOT - 95 - 1419

Station 8614+40 Offset 9' LT Elev. 5

Date 3/28/61 Water Elev. -5.0

Crew JF, FDS, RH Equipment T.H. 70'

Drafting

Depth Feet	Field Number	Description
0.0-15		Top Soil in yard.
16	755 25	Br & Gr Clay Silt.
24	756	Br Clay Silt w/ some Gravel wet
	↑	Refusal Rock. Stayed open
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

1036.3

FIELD BORING LOG

County, Route No., Section MOT - 49 - 14.19

Station 863+50 Offset 20 - Lt Elev.

Date 3/28/61 Water Elev.

Crew F.S. M.W. J.M. Equipment T.A.

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6.0	57Y 21	Brn & gray clay till w/ gravel
5	↑	Ref - Bed Rock.
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1033.4

County, Route No., Section Mat - 49 - 14.19

Station 868+10 Offset 20' Lt. Elev.

Date 3/28/61 Water Elev.

Crew F.S. M.W. J.M. Equipment T.A.

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4a	55Y 16	Brn + Gray Clay Till-Moist.
6a	56Y 26	Brn Sandy clay Till w/gravel
	↑	Ref - Bed rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1034.9

County, Route No., Section Mot - 49 - 14.19

Station 872+00 Offset 20' Lt. Elev.

Date Water Elev.

Crew FS MW JM Equipment

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6.0-	53Y 25	Brn + Gray Clay till with gravel
4.0-	54Y 15	Brn. Sandy silt w/ gravel
		Ref - Bed rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG 1030.7

County, Route No., Section Mot 49-14.19

Station 876+50 Offset 20 Lt Elev.

Date 3/28/61 Water Elev. -4

Crew FS MW JM Equipment

Drafting		

Depth Feet	Field Number	Description
0.0-		Top Soil
1.6a	51Y 20	Brn + Gray Clay Silt - Moist w/gravel
2.5-4	52Y 20	Brn + Gray Sandy silt w/gravel
		Ref - Bed Rock.
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

1029.8

FIELD BORING LOG

County, Route No., Section Mot-49-14.19

Station 880+00 Offset 15' Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW Equipment

J M

Drafting		

Depth Feet	Field Number	Description
0.0-		Top Soil
6a	49 23	Brn & Gray Clay w/gravel
4a	50 6	Brn Sandy Clay silt w/ gravel
	↑	Ref. Bed rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

W 1029.8

County, Route No., Section Mot 49-14.79

Station 884+00 Offset 15 Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW JM Equipment

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4	47Y	Brn & gray clay silt w/gravel
5	23	
2-4	49Y	Brn clay silt w/gravel - moist
		R.F - Red Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1027.1

County, Route No., Section Mot-49-14.19

Station 889+00 Offset 15' Lt Elev.

Date 3/28/61 Water Elev.

Crew FS MW JM Equipment TA

Drafting		

Depth Feet	Field Number	Description
0.0-		Top Soil
4a	2 6 11	Brn & Gray Clay Till w/gravel Moist
5		
6a	2 7 25	Brn & Gray Clay Till w/gravel Moist
		Ref - Bed Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1026.7

County, Route No., Section Mot - 49 - 14.19

Station 893+00 Offset 15 Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MW JM Equipment

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
6.0-	24Y 26	Brn Clay Till - Dense
6.0-	25Y 24	Brn + Gray Clay till - Dense - Moist
	↑	Ref. - Bed Rock
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1026.4

County, Route No., Section: Mot - 49 - 14.19

Station: 897+00 Offset: 15 Lt. Elev.:

Date: 3/28/61 Water Elev.:

Crew: FS MW JM Equipment:

Drafting

Depth Feet	Field Number	Description
0.0-		Top Soil
4a	22Y 11	Brn & Gray clay Till - Moist w/ gravel
4a	23Y 4	Gray clay Till w/ sand & gravel
		Bed Rock -- Refusal
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1025.6

County, Route No., Section Mot-49-14.19

Station 90+00 Offset 15' Lt Elev.

Date 3/28/61 Water Elev.

Crew FS MW Equipment

WM

Drafting

Depth Feet	Field Number	Description
00-08		Top Soil
4a	19Y 13	Brn & Gray Clay Till w/ gravel
5		
4a	20Y 14	Brn Clay Till w/ gravel
2in	21Y 8	Gray Clay w/ Sand & Gravel
		complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section: Mot 49-14.19

Station: 903+00 Offset: 15' Rt. Elev.:

Date: 3/28/81 Water Elev.:

Crew: FS MW Equipment:

VM

Drafting

Depth Feet	Field Number	Description
00-05		Top Soil
4a	15	Brn Clay Till w/gravel Moist
7b	16	Brn & Gray Clay Till w/gravel Moist
4a	17	Brn & Gray Sandy Till w/gravel wet
4a	18	Gray Clay Till w/gravel
10		complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1027.1

County, Route No., Section Mot-49-14.19

Station 909+00 Offset 15 Rt Elev.

Date 3/28/61 Water Elev.

Crew FS MN Equipment

JM

Drafting

Depth Feet	Field Number	Description
0.0-0.8		Top Soil
1a	13Y	Brn & Gray Clay Silt - Moist
2.5	250	
4a	14Y	Brn & Gray Clay Silt w/gravel
	11	Moist
10		complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

1028.7

FIELD BORING LOG

County, Route No., Section Mot - 49 19.19

Station 913+00 Offset 15' LT Elev.

Date 3/27/61 Water Elev.

Crew FS MW Equipment

Drafting

Depth Feet	Field Number	Description
00-06		Top Soil
4a	11Y 22	Brn & Gray clay Till moist
5		
4a	11 12Y	Brn clay Till w/ gravel
10		
		Complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

1029.1

FIELD BORING LOG

County, Route No., Section Mot. 49 - 14.19

Station 917+00 Offset 15 Lt Elev.

Date 3/27/61 Water Elev.

Crew FS MW JM Equipment TA

Drafting

Depth Feet	Field Number	Description
00-08		Top Soil
Cb	9Y 22	Brn & Gray Clay Till - Moist
4a	10Y 11	Brn Clay till w/ gravel
10	A	Complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1029.6

County, Route No., Section Mon - 49 - 14.19

Station 921+00 Offset 15' Lt Elev.

Date 3/27/61 Water Elev.

Crew ES MW JM Equipment T.A.

Drafting

Depth Feet	Field Number	Description
00-06		Top Soil
4a-5	7Y 18	Brn clay till w/gravel - Moist
4a-10	8Y 12	Brn clay till w/ gravel
15	↑	Complete
20		
25		
30		

Use reverse side of this sheet for additional notes.

1029.0

FIELD BORING LOG

County, Route No., Section Mot. -49 - 14.19

Station 928+00 Offset 15' Lt Elev.

Date 3/27/61 Water Elev. -4

Crew FS MW Equipment Dr.

JM

Drafting

Depth Feet	Field Number	Description
00-08		Top Soil
1-6	4Y 10	Sand + Gravel - Fill
6-5	5Y 25	Ban clay Till w/ Sand + Gravel
4-10	6Y 30	BAN clay Till w/ gravel
10	↑	complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

1029.0

County, Route No., Section: Mot - 49 - 14.19

Station: 932+00 Offset: 15' Lt Elev.:

Date: 3/27/61 Water Elev.:

Crew: FS MW JM Equipment: TA

Drafting

Depth Feet	Field Number	Description
0.0-0.2		Top Soil
2-4	1B	Brn silt w/sand & Gravel fill
6b	2Y	Brn clay Till - Moist
4a	3Y 10	Brn & Gray clay till w/small gravel Moist.
10	↑	complete
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

PAVEMENT SURVEY

FIELD BORING LOG

County, Route No., Section MOT-49-1419

Station 850+00 Offset 15' LT Elev. -1.0

Date 4-14-61 Water Elev. Dry

Crew [illegible] Equipment HA

Drafting		

Depth Feet	Field Number	Description
0.0-		
	4	0.0 — 0.2 Black Top
1-6 9	5	0.2 — 1.1 soil + gravel
4a 24		1.1 — 2.0 sub soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section Montgomery 49-1419

Station 850+00 Offset 15' RT Elev. 7.0

Date 4-14-61 Water Elev. 7.3

Crew Dickerson Equipment 4A

Morris Walker

Drafting

Depth Feet	Field Number	Description
0.0-	#1	0.3 - Black Top
Gal 24	#2	0.3 TO 0.6 Sand gravel & soil
Gal 26		
	#3	0.6 TO 2.5 Sub soil
5		
		36 Feet from Curb
10		TO Curb.
		3 Layers
15		Black Top
		Fill & Natural Sub
		Soil.
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT - 49 - 14.19

Station 855+00 Offset 15' LT Elev. -0.8

Date 4-14-61 Water Elev. Dry

Crew DICKERSON Equipment HA

Drafting		

Depth Feet	Field Number	Description
0.0		
	10	0.0 - 0.2 BLACK TOP
A-2-4 - 15	11	0.2 - 0.8 gravel + soil
Lac 16	12	0.8 - 3.0 SAB - Soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MUT-49-14.19

Station 855+00 Offset 15' RT Elev. -1.0

Date 4-14-61 Water Elev. Dry

Crew DICKINSON Equipment H.A.

Drafting

Depth Feet	Field Number	Description
0.0-		
	#7	0.0 - 0.1 : BLACK TOP
4a 18	#8	0.1 - 0.5 gravel + soil
6b 20	#9	0.5 - 2.5 Sub soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT-49-14.19

Station 860+00 Offset 15' LT Elev.

Date 4-14-61 Water Elev. Dry

Crew DICKASON Equipment HA

WALKER-MORRIS

Drafting

Depth Feet	Field Number	Description
0.0-		
	16	0.0 - 0.4 Black Top
4a 18	17	0.4 - 0.9 Sand, gravel + soil
4a 22	18	0.9 - 3.0 Sub soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT, 49 - 1419

Station 860+00 Offset 15 RT Elev. @

Date 4-14-61 Water Elev. Dry

Crew DICKASON Equipment HA

WALKER MORRIS

Drafting

Depth Feet	Field Number	Description
0.0-		
	13	0.0 - 0.3 Black Top
1-4 9	14	0.3 - 0.8 gravel + soil
A-5 25	15	0.8 - 3.0 sub-soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT-49-14.19

Station 865+00 Offset 15' LT Elev. -0.5

Date 4-14-61 Water Elev. Dry

Crew DICKASON Equipment Hand Auger

Drafting

Depth Feet	Field Number	Description
0.0-		
	22	0.0 TO 0.2 Black Top
1-2-5	23	0.2 TO 1.3 Crushed Limestone
4b-22	24	1.3 TO 3.0 Soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT-49-14.19

Station 865+00 Offset 15' RT Elev. -0.5

Date 4-14-61 Water Elev. Dry

Crew Dickason Equipment HA

Drafting		

Depth Feet	Field Number	Description
0.0		
	19	0.0 - 0.2 Black Top
	20	0.2 - 1.3 Sand, gravel + soil
4.0-28	21	1.3 - 3.0 Sub soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT - 49 - 1419

Station 870+00 Offset 15' LT Elev. -0.5

Date 4-14-60 Water Elev. Dry

Crew DICKRSON Equipment HA

Drafting		

Depth Feet	Field Number	Description
0.0-		
	28	0.0 - 0.2 BLACK TOP
4a-26	29	0.2 - 1.2 Soil + gravel
4a-26	30	1.2 3.0 Sub soil.
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT - 49 - [illegible]

Station 8[illegible]+00 Offset 15 [illegible] Elev. ~0.5

Date 4-14-61 Water Elev.

Crew LMD Equipment

Drafting

Depth Feet	Field Number	Description
0.0-		
	25	0.0 - 0.1 BLACK TOP
2-4 -24	26	0.1 - 0.6 Soil + gravel
6w 17	27	0.6 - 3.0 Sub - Soil.
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT 49 - 1419

Station 875+00 Offset 15' RT Elev. -0.5

Date 4-14-61 Water Elev. Dry

Crew DICKASON Equipment HA

Drafting

Depth Feet	Field Number	Description
0.0-		
	34	0.0 - 0.1 Black Top
6a 25-	35	0.1 - 1.1 Fill
7a 25	36	1.1 - 3.0 Sub-soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

FIELD BORING LOG

County, Route No., Section MOT - 49 - 14.19

Station 875+00 Offset 15' RT Elev. -0.3

Date 4-14-61 Water Elev. Dry

Crew DICKASON Equipment HA

Drafting

Depth Feet	Field Number	Description
0.0		
	31	[redacted]-1 BLACK TOP
6.0 -	32	0.1 0.9 - Fill-soil + gravel
6.0 12.	33	0.9 - 3.0 Sub soil
5		
10		
15		
20		
25		
30		

Use reverse side of this sheet for additional notes.

Form L 96-B

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

INTER-OFFICE COMMUNICATION

Co. of Montgomery Div. 8
H/H MDT-49 Sec. 14.19
Date March 16, 1961

To R. R. Litehiser, Engineer of Tests Attention: Neil Mason

From L. B. Gamble, Division Engineer of Location & Design

Subject Soil Profile Submission

Field 13-3-1
Mon

Enclosed please find two (2) sets of Alignment Sheets and Typical Sections showing the proposed alignment and grade and the intended type and depth of pavement material on the above subject project.

Very truly yours,

JOSEPH M. UNGER
DIVISION ENGINEER

L. B. Gamble by J. L. O.

L. B. Gamble
Division Engineer of
Location & Design

LBG:jlo:rd

Encls. (2)

CC: Unger
Towle
Oswald
File

MAR 1961
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STATE HIGHWAY TESTING LABORATORY

MAR 1961
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STATE HIGHWAY TESTING LABORATORY

Folder

April 28, 1961

W. J. Cromean, Engineer of Location & Design

H. E. Marshall

R. R. Litehiser, Engineer of Tests

Per: N. E. Mason

Report of Soil Profile Investigation
MOT-49-14.19

File: 13-3-1
Montgomery

Transmitted herewith is a copy of the soil profile report for the subject project.

General information regarding observations, the investigation, and findings, appears on drawing sheet number one, pavement survey data appears on drawing sheet number five.

The reproduced tracings of this report are being sent to Division 8 to be attached to the plans.

R. R. Litehiser
Engineer of Tests

Per: _____
Dorothy J. Ray
Assistant Engineer

GPH:RDR:pjs
Encl.
cc: Joseph M. Unger (3)
H. L. Krauser, Attn: C. H. Shepard
Ohio State Geological Survey, Attn: J. L. Forsyth
N. E. Mason (4)

Form AU-77

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

INTER-OFFICE COMMUNICATION

County Montgomery Div. 8

S. 49 Sec. 14.19

Date May 8, 1961

To J. M. Unger, Division Deputy Director Attention L. B. Gamble

From H. J. Crossman, Engineer of Location and Design By: H. E. Marshall

Subject MGF-49-14.19

Reference is made to the Soil Profile for the subject project reported out by letter of April 28, 1961.

The test borings indicate a predominance of A-4a and A-6a sandy silts and sandy silt clays. The pavement design proposed in Mr. Richetts letter of March 8, 1961, noted below is considered adequate for both the widening and full width new construction. A single 1½" resurfacing is proposed for the present pavement.

1½"	T-35	Surface Course, Type "C"
1½"	B-35	Leveling Course
3"	B-35	Base Course
8"	B-19	Base Course
6"	I-22	Subbase

Test borings made through the present shoulders between the curbs and the old concrete in Phillipsburg show this paving to consist of 2 to 3 inches of bituminous mat on a variable depths of granular material containing excessive soil fines, except between Stations 860 and 865 on the right. In this one short area there is over a foot of good base. Through the remainder of the curbed section in Phillipsburg, the base is not suitable for the widened pavement and should be removed and replaced with the base widening described above, or with the following alternate base widening.

7"	B-21	Waterproofed Aggregate Base
6"	I-22	Grade C or D

If B-19 is used for the widening, shallow pipe underdrains should be provided through Phillipsburg. If the B-21 design is used no underdrains need be provided here. If it is planned to pave the strip between the 24 foot mainline and the curb we suggest reduction of the bituminous base to 3½" of B-21 with the remaining depth to be made of I-22. The B-35 surface course should be extended out over the existing gutter pan.

Referring to the rural sections subgrade drainage by deep pipe underdrains is recommended in the following areas of full width new pavement construction.

Station	to	Station
738 + 50	-	745 + 00
759 + 00	-	774 + 00

Drainage for the base widening through the remainder of the project by the use of I-9 stone underdrains is recommended.

W. J. Cressman
Engineer of Location and Design

H. E. Marshall
Engineer - Geologist

WJC:HEM:mwa

cc:
Mr. Shell
Mr. Ricketts
Mr. Mason
Field Engineer
File

Form TE-21
(1956-6-24)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No. _____

Report on Soil

Lab. No. So. 6463 Columbus, Ohio,

Sample of _____ Proposed Use _____

Sample No. 20 Date 8-22-20-1956

Depth taken _____ Depth from 0.2 to 0.6

Depth of cut _____ Height of fill _____ Representing _____

Submitted by _____ Ohio.

Received _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 1mm.

SQUARE OPENING		TOTAL % PASSING	
6"	%	3"	%
6"-1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½"	14 %	¾"	100 %
½"-⅜"	5 %	½"	86 %
⅜"-#4	14 %	⅜"	81 %
#4-#10	7 %	#4	67 %
Passing #10	60 %	#10	60 %

Soil Mortar—Particles Smaller Than 1mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	2 %	#10	60 %
Fine Sand 0.42-0.074mm.	20 %	#40	43 %
Silt 0.074-0.005mm.	17 %	#50	%
Clay smaller than 0.005mm.	26 %	#80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	43 %

OTHER TEST DATA

Liquid Limit 30 Water Content as Received 24 %

Plasticity Index 11 Loss on Ignition (corrected) %

Specific Gravity _____ Coefficient of Permeability _____ Ft. per day

Classification—Ohio A-2-4 A.B.R. _____

Remarks: Sample contained Gravel & Cinders

Requisition No. _____ Respectfully submitted,

Purchase Order No. _____

Number of Tests

Lab. No. So. 6463

Form TE-41
(1956—4-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

County, Rt. No. & Sec.

Project No.

Report on Soil

Lab. No. So. 6164

Columbus, Ohio,

Sample of

Proposed Use

Sample No. 30 From [illegible]

Depth taken

Depth from 0.6 to 2.5

Depth of cut

Height of fill

Represents

Submitted by

Ohio.

Sampled

Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	%	¾"	%
½"-⅜"	%	½"	%
⅜"-#4	5 %	⅜"	100 %
#4-#10	9 %	#4	95 %
Passing #10	86 %	#10	86 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	8 %	# 10	86 %
Fine Sand 0.42-0.074mm.	14 %	# 40	78 %
Silt 0.074-0.005mm.	28 %	# 50	%
Clay smaller than 0.005mm.	36 %	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	64 %

OTHER TEST DATA

Liquid Limit 33 Water Content as Received 26 %

Plasticity Index 13 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-6 a H.R.B.

Remarks: Sample contained [illegible]

Requisition No.

Purchase Order No.

Respectfully submitted,

Engineer of Tests

Lab. No. So. 6164

Form TE-21
(1936—4-34)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

County, Rt. No. & Sec.

Project No.

Report on Soil

Lab. No. So. 6305 Columbus, Ohio,

Sample of Proposed Use

Sample No. From

Depth taken Depth from 0.2 to 1.1

Depth of cut Height of fill Represents

Submitted by , Ohio.

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾" 12	%	1" 12	%
¾"-½" 6	%	¾" 18	%
½"-⅜" 6	%	½" 24	%
⅜"- #4 17	%	⅜" 42	%
#4- #10 11	%	#4 53	%
Passing #10 54	%	#10 54	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm. 14	%	# 10 54	%
Fine Sand 0.42-0.074mm. 15	%	# 40 40	%
Silt 0.074-0.005mm. 16	%	# 50	%
Clay smaller than 0.005mm. 9	%	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200 28	%

OTHER TEST DATA

Liquid Limit Water Content as Received 9 %

Plasticity Index NON PL Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-4 (8) H.R.B.

Remarks: Sample contained [illegible]

Requisition No. Respectfully submitted,

Purchase Order No.

Engineer of Tests

Lab. No. So. 6305

Form 17-B
(Rev. 2-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 16, OHIO

Project No.

Report on Soil

Lab. No. 6466

Columbus, Ohio

Sample of

Proposed Use

Sample No. 60 From 150 rod - 15 ft

Sample taken

Depth from 11 to 22

Depth of cut

Height of fill

Represents

Submitted by

Ohio

Received

Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6"	%	3"	%
4½"	%	2"	%
3"	%	1½"	%
2"	%	1"	%
1½"-½"	%	¾"	%
½"-¼"	%	½"	%
¼"-#4	%	¼"	%
#4-#10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.5mm.	6 %	#10	28 %
Fine Sand 0.5-0.074mm.	9 %	#40	24 %
Silt 0.074-0.005mm.	48 %	#100	%
Clay smaller than 0.005mm.	37 %	#200	83 %
Colloids smaller than 0.001mm.	%		

OTHER TEST DATA

Liquid Limit 27 Water Content as Received 14 %

Plasticity Index 8 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability

Classification—Ohio A-4a(0) H.R.B.

Sample contained Brown 4 b

Respectfully submitted,

Lab. No. 6466

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No. _____

Report on Soil

6467

Lab. No. So. _____ Columbus, Ohio, _____

Sample of _____ Proposed Use _____

Sample No. 80 From 1 8 5 + 00 - 15 RT

Depth taken _____ Depth from 0.1 to 0.5

Depth of cut _____ Height of fill _____ Represents _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
2"	%	3"	%
2"-1½"	26 %	2"	100 %
1½"-1"	0 %	1½"	74 %
1"-¾"	3 %	1"	74 %
¾"-½"	3 %	¾"	71 %
½"-⅜"	5 %	½"	68 %
⅜"-#4	2 %	⅜"	63 %
#4-#10	9 %	#4	61 %
Passing #10	52 %	#10	52 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	5 %	#10	52 %
Fine Sand 0.42-0.074mm.	8 %	#40	47 %
Silt 0.074-0.005mm.	47 %	#60	%
Clay smaller than 0.005mm.	20 %	#100	%
Colloids smaller than 0.001mm.	%	#200	39 %

OTHER TEST DATA

Liquid Limit 32 Water Content as Received 14 %

Plasticity Index 10 Loss on Ignition (corrected) _____ %

Specific Gravity _____ Coefficient of Permeability _____ ft. per day

Classification—Ohio A-4a H.R.B. _____

Remarks: Sample contained Brown bar

Laboratory No. _____ Respectfully submitted,

Lab. No. So. 6467

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Report on Soil

Lab. No. So. 6468 Columbus, Ohio,

Sample of Proposed Use

Sample No. 90 From 85-100-15 Int

Depth taken Depth from 0.5 to 2.5

Depth of cut Height of fill Represents

Submitted by Ohio

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3"-2"	%	3"	%
2"-1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½"	6 %	¾"	100 %
½"-⅜"	0 %	½"	94 %
⅜"-#4	4 %	⅜"	94 %
#4-#10	4 %	#4	90 %
Passing #10	86 %	#10	86 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	5 %	#10	86 %
Fine Sand 0.42-0.074mm.	11 %	#40	81 %
Silt 0.074-0.005mm.	34 %	#60	%
Clay smaller than 0.005mm.	36 %	#80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	70 %

OTHER TEST DATA

Liquid Limit 37 Water Content as Received 20 %

Plasticity Index 17 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability ft. per day

Classification — Ohio A-6 H.R.B.

Remarks: Sample contained Brown Sandy Gravel

Respectively submitted,

6468

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No. _____

Report on Soil

Lab. No. So. 6469 Columbus, Ohio, _____

Sample of _____ Proposed Use _____

Sample No. 110 From 100 + 00 - 15 rt

Depth taken _____ Depth from 0.2 to 0.8

Depth of cut _____ Height of fill _____ Represents _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6"	%	3"	%
4"-1½"	27 %	2"	100 %
1½"-1"	0 %	1½"	73 %
1"-¾"	0 %	1"	73 %
¾"-½"	3 %	¾"	73 %
½"-⅜"	6 %	½"	70 %
⅜"-#4	10 %	⅜"	64 %
#4-#10	2 %	#4	54 %
Passing #10	52 %	#10	52 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	8 %	#10	48 %
Fine Sand 0.42-0.074mm.	9 %	#40	44 %
Silt 0.074-0.005mm.	12 %	#50	%
Clay smaller than 0.005mm.	18 %	#60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	33 %

OTHER TEST DATA

Liquid Limit	30	Water Content as Received	15 %
Plasticity Index	12	Loss on Ignition (corrected)	%
Specific Gravity		Coefficient of Permeability	

Classification — Ohio A-2-6 H.R.B. _____

Remarks: Sample contained Brown Co Gravel

Respectfully submitted,

6469

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 14, OHIO

Project No.

Report on Soil

Lab. No. So. 6470 Columbus, Ohio,

Sample of Proposed Use

Sample No. 100 From [illegible] 100 [illegible]

Depth taken Depth from 0.8 to 3.0 ft.

Depth of cut Height of fill Represents

Submitted by , Ohio

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1" 28	%	1½" 100	%
1" -¾" 0	%	1" 72	%
¾"-½" 4	%	¾" 72	%
½"-¼" 4	%	½" 68	%
¼"-#4 5	%	¼" 67	%
#4-#10 5	%	#4 59	%
Passing #10 54	%	#10 54	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm. 6	%	#10 54	%
		#40 48	%
Fine Sand 0.42-0.074mm. 8	%	#50	%
		#80	%
Silt 0.074-0.005mm. 19	%	#100	%
		#200 40	%
Clay smaller than 0.005mm. 21	%		
Colloids smaller than 0.001mm.	%		

OTHER TEST DATA

Liquid Limit 33 Water Content as Received 16 %

Plasticity Index 11 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability ft. per day

Classification — Ohio A-6 a H.R.B.

Remarks: Sample contained Brown Gravel

Respectfully Submitted,

Laboratory No.

6470

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No.

Report on Soil

Lab. No. So. 6471 Columbus, Ohio,

Sample of Proposed Use

Sample No. 140 From 26 + 00 15 Rt

Depth taken Depth from 0.5 to 0.8

Depth of cut Height of fill Represents

Submitted by Ohio

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6" -8"	%	3"	%
3" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	27 %	¾"	100 %
½"-⅜"	15 %	½"	73 %
⅜"- #4	23 %	⅜"	58 %
#4- #10	7 %	#4	35 %
Passing #10	28 %	#10	28 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	8 %	# 10	28 %
Fine Sand 0.42-0.074mm.	6 %	# 40	20 %
Silt 0.074-0.005mm.	7 %	# 50	%
Clay smaller than 0.005mm.	7 %	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	14 %

OTHER TEST DATA

Liquid Limit 24 Water Content as Received 9 %

Plasticity Index 5 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability

Classification — Ohio A-1-a H.R.B.

Remarks: Sample contained 5 Stone Frag

Respectfully submitted,

Lab. No. 6471

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No.

Report on Soil

Lab. No. So. 6472

Columbus, Ohio,

Sample of

Proposed Use

Sample No. 150 From RA 200-150A

Depth taken

Depth from 0.8 to 3.0

Depth of cut

Height of fill

Representing

Submitted by

Ohio

Sampled

Received

MECHANICAL ANALYSIS

Course Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6"-3"	%	3"	%
3"-1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½"	1 %	¾"	100 %
½"-⅜"	2 %	½"	99 %
⅜"-#4	4 %	⅜"	97 %
#4-#10	3 %	#4	93 %
Passing #10	90 %	#10	90 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	3 %	#10	90 %
Fine Sand 0.42-0.074mm.	8 %	#40	87 %
Silt 0.074-0.005mm.	34 %	#60	%
Clay smaller than 0.005mm.	45 %	#80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	%

OTHER TEST DATA

Liquid Limit 42

Plasticity Index 10

Specific Gravity

Water Content as Received 23 %

Loss on Ignition (corrected) %

Coefficient of Permeability

Classification — Ohio A-5 H.R.B.

Description of sample contained Brown Ca

Respectfully submitted,

Lab. No. 6472

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Report on Soil

6173

Lab. No. So. _____ Columbus, Ohio, _____

Sample of _____ Proposed Use _____

Sample No. 1120 From _____

Depth taken _____ Depth from 0.4 to 0.9

Depth of cut _____ Height of fill _____ Represents _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING
3"-2"	%	3" %
2"-1½"	%	2" %
1½"-1"	1 %	1½" %
1"-¾"	7 %	1" %
¾"-½"	0 %	¾" %
½"-⅜"	0 %	½" %
⅜"-#4	%	⅜" %
#4-#10	3 %	#4 %
Passing #10	78 %	#10 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING
Coarse Sand 2.0-0.42mm.	6 %	#10 78 %
Fine Sand 0.42-0.074mm.	20 %	#40 72 %
Silt 0.074-0.005mm.	29 %	#50 %
Clay smaller than 0.005mm.	33 %	#60 %
Colloids smaller than 0.001mm.	%	#100 %
		#200 72 %

OTHER TEST DATA

Liquid Limit 2 Water Content as Received 18 %

Plasticity Index 2 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability ft. per day

Classification — Ohio A-4 (a) H.R.B.

Remarks: Sample contained Some Stones

Respectfully submitted,

Laboratory No. 6173

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No.

Report on Soil

Lab. No. So. 6474 Columbus, Ohio

Source of Proposed Use

Sample No. 180 From

Depth taken Depth from 0.8 to 3.0

Depth of cut Height of fill Representative

Submitted by Date

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3"-2"	%	3"	%
2"-1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½" 8	%	¾" 100	%
½"-⅜" 1	%	½" 92	%
⅜"-#4 5	%	⅜" 91	%
#4-#10 5	%	#4 86	%
Passing #10 81	%	#10 81	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm. 8	%	#10 81	%
Fine Sand 0.42-0.074mm. 17	%	#40 73	%
Silt 0.074-0.005mm. 31	%	#50	%
Clay smaller than 0.005mm. 25	%	#60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200 56	%

OTHER TEST DATA

Liquid Limit 25 Water Content as Received 22 %

Plasticity Index 6 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-4a(0) H.R.B.

Remarks: Sample contained Gravel

Registration No. Respectfully submitted,

Purchase Order No.

Engineer of Tests

Lab. No. So. 6474

[illegible]

[illegible] TESTING LABORATORY

OHIO STATE UNIVERSITY, COLUMBUS

Report on Soil

Lab. No. So. 6475 [illegible]

Columbus, Ohio,

Sample of _____ Proposed Use _____

Sample No. 200 From 26-+00-15 Rt

Depth taken _____ Depth from 0.2' to 1.3'

Depth of cut _____ Height of fill _____ Representing _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3"-2"	%	3"	%
2"-1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½"	%	¾"	%
½"-¼"	%	½"	%
¼"-#4	%	¼"	%
#4-#10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	%	#10	%
Fine Sand 0.42-0.074mm.	%	#40	%
Silt 0.074-0.005mm.	%	#60	%
Clay smaller than 0.005mm.	%	#80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	%

OTHER TEST DATA

Liquid Limit _____ Water Content as Received _____ (a) [illegible] %

Plasticity Index No test Loss on Ignition (corrected) _____ %

Specific Gravity _____ Coefficient of Permeability _____ [illegible]

Classification — Ohio _____ H.R.B. _____

Remarks: Sample contained A-24 Lime Frags

Bit Mat & Soil

No grading

Respectfully submitted,

[illegible]

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY STADIUM
COLUMBUS 10, OHIO

Report on Soil

Lab. No. 6476 Columbus, Ohio

Location of _____ Proposed Use _____

Sample No. 210 From 265+00 - 15 RT

Sample Taken _____ Depth from 1.5' to 2.0'

Sampled at _____ Height of fill _____ Representative _____

Submitted by _____

Received _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3"	%	3"	%
2½"	%	2"	%
2"-1½"	%	1½"	%
1½"-¾"	%	1"	%
¾"-½"	5 %	¾"	100 %
½"-⅜"	0 %	½"	95 %
⅜"-#4	8 %	⅜"	95 %
#4-#10	12 %	#4	87 %
Passing #10	75 %	#10	75 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	7 %	#10	75 %
Fine Sand 0.42-0.074mm.	14 %	#40	66 %
Silt 0.074-0.005mm.	29 %	#60	%
Clay smaller than 0.005mm.	23 %	#100	%
Colloids smaller than 0.001mm.	%	#200	5-2 %

OTHER TEST DATA

Liquid Limit 28 Water Content as Received 28 %

Plasticity Index 5- Loss on Ignition (corrected) % %

Specific Gravity _____ Coefficient of Permeability _____

Classification—Ohio A-4a(0) H.R.B. _____

Remarks: Sample contained Gravel 6 cm

Respectfully submitted,

Lab. No. 6476

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Report on Soil

Lab. No. 8a 6477 Columbus, Ohio,

Project

Proposed Use

Sample No. 220 From [illegible]

Depth taken Depth from 0.2 to 1.3

Depth of cut Height of fill Represents

Submitted by Ohio

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING
8" -8"	%	8" %
8" -1½"	18 %	2" [illegible] %
1½"-1"	18 %	1½" [illegible] %
1" -¾"	6 %	1" [illegible] %
¾"-½"	17 %	¾" [illegible] %
½"-⅜"	5 %	½" [illegible] %
⅜"-#4	7 %	⅜" [illegible] %
#4-#10	2 %	#4 [illegible] %
Passing #10	24 %	#10 [illegible] %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING
Coarse Sand 2.0-0.42mm.	7 %	# 10 24 %
Fine Sand 0.42-0.074mm.	8 %	# 40 17 %
Silt 0.074-0.005mm.	6 %	# 50 %
Clay smaller than 0.005mm.	3 %	# 60 %
Colloids smaller than 0.001mm.	%	#100 %
		#200 9 %

OTHER TEST DATA

Liquid Limit Water Content as Received 5 %

Plasticity Index Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability ft. per day

Classification — Ohio A-1-a H.R.B.

Remarks: Sample contained [illegible] Fragments [illegible]

Respectfully submitted,

Laboratory No. Engineer of Tests

Lab. No. 6477

Form TP-21
(Rev. 4-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No. _____

Report on Soil

Lab. No. So. 6473 Columbus, Ohio, _____

Sample of _____ Proposed Use _____

Sample No. 5 H 2 From Tr 20 - 15 LT

Depth taken _____ Depth from 1.2 to 3.0

Depth of cut _____ Height of fill _____ Represents _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	%	¾"	%
½"-⅜"	%	½"	%
⅜"- #4	%	⅜"	%
#4- #10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	8 %	# 10	100 %
Fine Sand 0.42-0.074mm.	12 %	# 40	92 %
Silt 0.074-0.005mm.	46 %	# 50	%
Clay smaller than 0.005mm.	34 %	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	80 %

OTHER TEST DATA

Liquid Limit _____ Water Content as Received 22 %

Plasticity Index _____ Loss on Ignition (corrected) _____ %

Specific Gravity _____ Coefficient of Permeability _____ Ft. per day

Classification — Ohio A-7-6 H.R.B. _____

Remarks: Sample contained _____

Respectfully submitted,

Laboratory Manager

Lab. No. 6473

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No.

Report on Soil

Lab. No. So. 6179

Columbus, Ohio,

Sample of

Proposed Use

Sample No. 260 From 200 100 -15 ft

Depth taken

Depth from 0.1 to 0.6

Depth of cut

Height of fill

Represents

Submitted by

Date

Delivered

Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6" -8"	%	3"	%
3" -1½"	%	2"	%
1½"-1"	%	1½"	%
1"-¾"	%	1"	%
¾"-½"	2 %	¾"	100 %
½"-⅜"	13 %	½"	98 %
⅜"-#4	33 %	⅜"	85 %
#4-#10	8 %	#4	52 %
Passing #10	44 %	#10	44 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	6 %	#10	44 %
Fine Sand 0.42-0.074mm.	9 %	#40	32 %
Silt 0.074-0.005mm.	14 %	#50	%
Clay smaller than 0.005mm.	15 %	#60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	29 %

OTHER TEST DATA

Liquid Limit 29 Water Content as Received 24 %

Plasticity Index 7 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability

Classification — Ohio A-2-4 H.R.B.

Remarks: Sample contained Brown Ca

Superintendent Laboratory

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project _____

Report on Soil

Lab. No. So. 6480 Columbus, Ohio, _____

Sample of _____ Proposed Use _____

Sample No. 220 From 8+00 to 8+50 -15 Rt

Date taken _____ Depth from 0.6 to 5.0

Depth of cut _____ Height of fill _____ Representative _____

Submitted by _____ Date _____

Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6"	%	3"	%
4½"	%	2"	%
4"	%	1½"	%
3"	%	1"	%
¾"-½"	3 %	¾"	100 %
½"-⅜"	2 %	½"	97 %
⅜"-#4	5 %	⅜"	95 %
#4-#10	5 %	#4	90 %
Passing #10	85 %	#10	85 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	7 %	#10	85 %
Fine Sand 0.42-0.074mm.	16 %	#40	78 %
Silt 0.074-0.005mm.	31 %	#60	%
Clay smaller than 0.005mm.	31 %	#80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	62 %

OTHER TEST DATA

Liquid Limit 31 Water Content as Received 17 %

Plasticity Index 11 Loss on Ignition (corrected) %

Specific Gravity _____ Coefficient of Permeability _____ Ft. per Day

Classification — Ohio A-4a H.R.B. _____

Remarks: Sample contained Brown Soil

Respectfully submitted,

Lab. No. So. 6480

STATE [illegible]
[illegible]MENT OF HIGHWAYS
[illegible]ING LABORATORY
[illegible]TATE UNIVERSITY
[illegible]LUMBUS 10, OHIO

Project No. _____

Report on Soil

Lab. No. 6181 Columbus, Ohio

Sample of _____ Proposed Use _____

Sample No. 240 From 220 + 00 - 15' RT

Depth taken _____ Depth from 0.2 to 1.2

Depth of cut _____ Height of fill _____ Representative _____

Submitted by _____ Ohio

Sampled _____ Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -4"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	2 %	¾"	100 %
½"-¾"	2 %	½"	98 %
¾"- #4	7 %	¾"	96 %
#4- #10	7 %	#4	[illegible] %
Passing #10	82 %	#10	82 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	11 %	# 10	82 %
Fine Sand 0.42-0.074mm.	13 %	# 40	71 %
Silt 0.074-0.005mm.	36 %	# 80	%
Clay smaller than 0.005mm.	22 %	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	58 %

OTHER TEST DATA

Liquid Limit 27 Water Content as Received 16 %

Plasticity Index 5 Loss on Ignition (corrected) %

Specific Gravity _____ Coefficient of Permeability _____ ft. per day

Classification — Ohio A-4a H.R.B. _____

Remarks: Sample contained Some Stone Frag.

Respectfully submitted,

Lab. No. 6181

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

Project No. _____

Report on Soil

6482

Columbus, Ohio

Proposed Use _____

Sample No. 30D From 270 + 00 - 25' Rt

Depth from 4.2 to 3.0

Height of fill _____

Submitted by _____, _____, Ohio

Received _____

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
6" - 4"	%	6"	%
4" - 1½"	%	4"	%
1½" - 1"	%	1½"	%
1" - ¾"	%	1"	%
¾" - ⅜"	%	¾"	%
⅜" - ¼"	%	⅜"	%
¼" - #4	%	¼"	%
#4 - #10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	4 %	#10	100 %
Fine Sand 0.42-0.074mm.	12 %	#40	98 %
Silt 0.074-0.005mm.	26 %	#100	%
Clay smaller than 0.005mm.	42 %	#200	82 %
Colloids smaller than 0.001mm.	%		

OTHER TEST DATA

Liquid Limit	38	Water Content as Received	26 %
Plasticity Index	14	Loss on Ignition (corrected)	%
Specific Gravity		Coefficient of Permeability	

Classification—Ohio A-6a H.R.B. _____

Remarks: Sample contained Boulder 6a

Respectfully submitted,

_____

Form TE-11
(1096—8-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

County, Rt. No. & Sec.

Project No.

Report on Soil

Lab. No. So. 6183 Columbus, Ohio,

Sample of Proposed Use

Sample No. 330 From [illegible] 15 Rt

Depth taken Depth from 0.1 to 0.9

Depth of cut Height of fill Represents

Submitted by Ohio.

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	%	¾"	%
½"-⅜"	%	½"	%
⅜"- #4	%	⅜"	%
#4- #10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	4 %	# 10	100 %
Fine Sand 0.42-0.074mm.	2 %	# 40	96 %
Silt 0.074-0.005mm.	43 %	# 50	%
Clay smaller than 0.005mm.	45 %	# 80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	88 %

OTHER TEST DATA

Liquid Limit 37 Water Content as Received — %

Plasticity Index 12 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-6a H.R.B.

Remarks: Sample contained [illegible]
(Broken Jar No Moist)

Requisition No.

Purchase Order No.

Respectfully submitted,

Engineer of Tests

Lab. No. So. 6183

Form TE-21
(10M—1-14)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

County, Rt. No. & Sta.

Project No.

Report on Soil

Lab. No So. 6484 Columbus, Ohio

Sample of Proposed Use

Sample No. 3-2 From [illegible]

Depth taken Depth from 0.8 to 3.0

Depth of cut Height of fill Represents

Submitted by Ohio

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	%	¾"	%
½"-⅜"	%	½"	%
⅜"- #4	%	⅜"	%
#4- #10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	9 %	# 10	75 %
Fine Sand 0.42-0.074mm.	12 %	# 40	66 %
Silt 0.074-0.005mm.	29 %	# 50	%
Clay smaller than 0.005mm.	25 %	# 60	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	54 %

OTHER TEST DATA

Liquid Limit Water Content as Received 12 %

Plasticity Index Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio H.R.B.

Remarks: Sample contained [illegible] Gravel

Requisition No.

Purchase Order No.

Respectfully submitted,

Engineer of Tests

Lab. No. So. 6484

Form TE 11
(Rev. 6-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS, OHIO

County, Rt. No. & Sec.

Project No.

Report on Soil

Lab. No So. 6485

Columbus, Ohio.

Sample of

Proposed Use

Sample No. From

Depth taken Depth to

Depth of cut Height of fill Represents

Submitted by Ohio.

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	3 %	¾"	100 %
½"-⅜"	2 %	½"	97 %
⅜"-#4	11 %	⅜"	95 %
#4-#10	13 %	#4	81 %
Passing #10	68 %	#10	68 %

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	6 %	# 10	68 %
Fine Sand 0.42-0.074mm.	16 %	# 40	62 %
Silt 0.074-0.005mm.	27 %	# 50	%
Clay smaller than 0.005mm.	25 %	# 80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	62 %

OTHER TEST DATA

Liquid Limit 33 Water Content as Received 25 %

Plasticity Index 14 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-6 a H.R.B.

Remarks: Sample contained Brown Silt

Requisition No.

Purchase Order No.

Respectfully submitted,

Engineer of Tests

Lab. No. So. 6485

Form TE-31
(1934—6-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
OHIO STATE UNIVERSITY CAMPUS
COLUMBUS 10, OHIO

County, Rt. No. & Sec.

Project No.

Report on Soil

Lab. No. So. 6186 Columbus, Ohio,

Sample of Proposed Use

Sample No. 3-0 From [illegible]

Depth taken Depth from 6.1 to 7.0

Depth of cut Height of fill Represents

Submitted by Ohio.

Sampled Received

MECHANICAL ANALYSIS

Coarse Agg.—Particles Larger Than 2mm.

SQUARE OPENING		TOTAL % PASSING	
3" -2"	%	3"	%
2" -1½"	%	2"	%
1½"-1"	%	1½"	%
1" -¾"	%	1"	%
¾"-½"	%	¾"	%
½"-⅜"	%	½"	%
⅜"- #4	%	⅜"	%
#4- #10	%	#4	%
Passing #10	%	#10	%

Soil Mortar—Particles Smaller Than 2mm.

PARTICLE SIZE		TOTAL % PASSING	
Coarse Sand 2.0-0.42mm.	2 %	# 10	100 %
Fine Sand 0.42-0.074mm.	10 %	# 40	98 %
Silt 0.074-0.005mm.	42 %	# 60	%
Clay smaller than 0.005mm.	46 %	# 80	%
Colloids smaller than 0.001mm.	%	#100	%
		#200	88 %

OTHER TEST DATA

Liquid Limit 47 Water Content as Received 25 %

Plasticity Index 22 Loss on Ignition (corrected) %

Specific Gravity Coefficient of Permeability Ft. per day

Classification — Ohio A-7-6 H.R.B.

Remarks: Sample contained [illegible]

Requisition No.

Purchase Order No.

Respectfully submitted,

Engineer of Tests

Lab. No. So. 6186

orig file

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

Continued - Sheet ____ of ____

CO., RT., SEC. Mot-49-14.19

Borings		RURAL	URBAN	Type			DEPTH	Check Clearance Record					
No.	Station and Offset			HA	TA	DC		A	W	S	G	E	T
1	724+00 20R	X			X		10						
2	728+00 15R	X			X		10						
3	732+0 15L	X			X		10						
4	735+0 15L	X			X		10						
5	740+0 5R	X			X		10						
6	742+0 10R	X			X		15						
7	744+0 15L	X			X		10						
8	748+0 15L	X			X		10						
9	752+0 15R	X			X		10						
10	756+0 15R	X			X		10						
11	760+0 15R	X			X		10						
12	763+0 ℄	X			X		10						
13	766+0 15L	X			X		10						
14	770+0 15R	X			X		12						
15	774+0 15R	X			X		10						
16	778+0 15R	X			X		10						
17	78+0 15R	X			X		10						
18	785+0 15R	X			X		10						
19	789+0 15R	X			X		10						
20	793+0 15L	X			X		10						
21	797+0 15L	X			X		10						
22	801+0 15L	X			X		10						
23	805+0 15R	X			X		10						
24	809+0 15R	X			X		10						

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

Continued - Sheet ____ of ____

CO., RT., SEC. _____

Borings			RURAL	URBAN	Type			DEPTH	Check Clearance Record					
No.	Station and Offset				HA	TA	DC		A	W	S	G	E	T
25	812+0	15R	X			X		10						
	816+0	15R	X			X		10						
	820+0	15R	X			X		10						
	824+0	15R	X			X		10						
	828+0	15R	X			X		10						
30	832+0	15R	X			X		10						
	836+0	15R	X			X		10						
	840+0	15R	X			X		10						
	844+50	20L		X		X		10		X		X		
	849+0	20L		X		X		10		X		X		
35	852+90	20L		X		X		10		X		X		
	857+75	20L		X		X		10		X		X		
	861+40	20L		X		X		10		X		X		
	865+45	20L		X	X			10		X		X		
	868+10	20L		X		X		10		X		X		
40	872+0	20L		X		X		10		X		X		
	876+50	20L		X		X		10		X		X		
	880+0	15R		X		X		10		X		X		
	884+0	15R		X		X		10		X		X		
	889+0	15L	X			X		10						
45	893+0	15R	X			X		10						
	897+0	15L	X			X		10						
	901+0	15L	X			X		10						
48	905+0	15R	X			X		10						

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

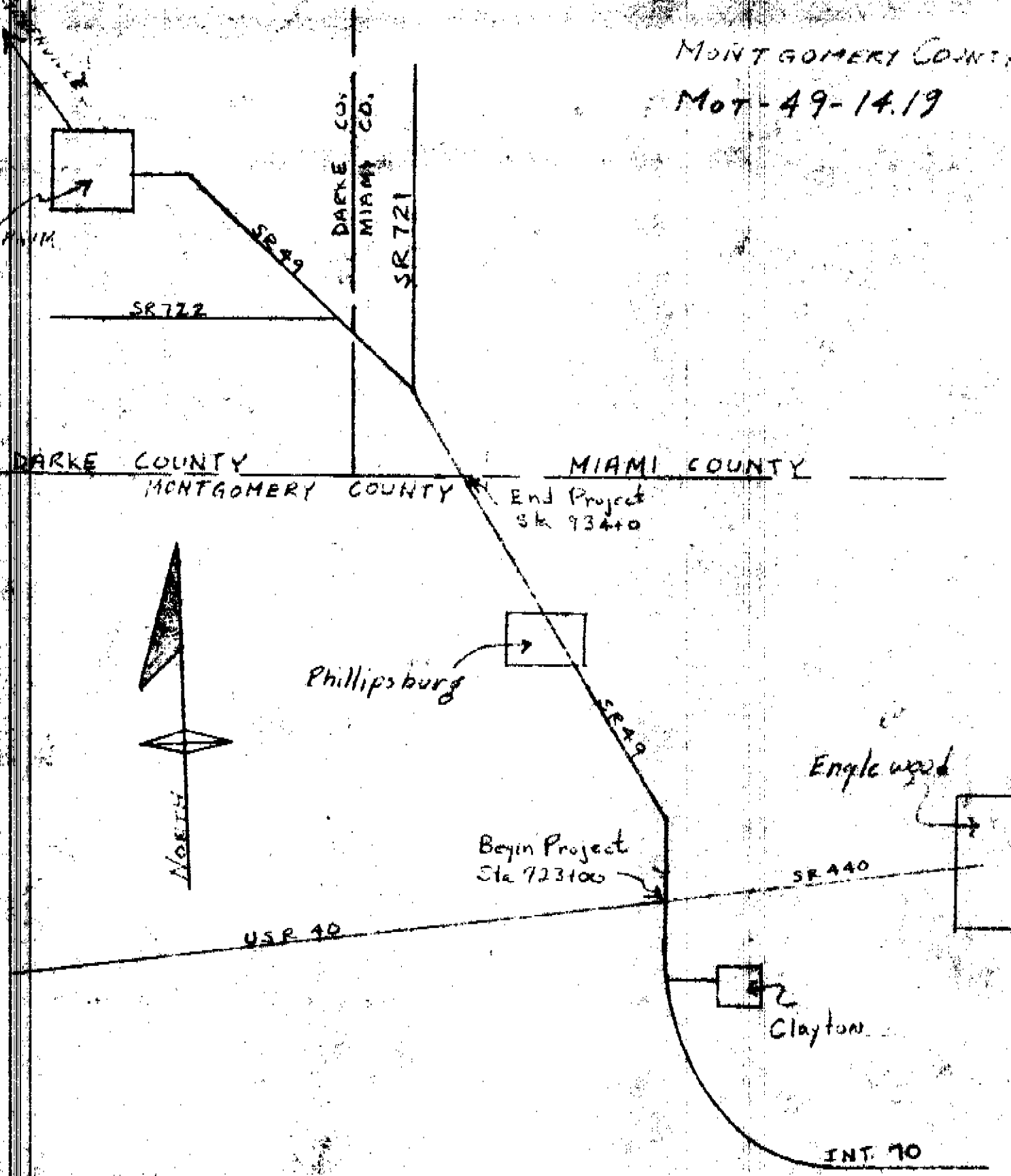
Continued - Sheet ____ of ____

CO., RT., SEC. _____

Borings			RURAL	URBAN	Type			DEPTH	Check Clearance Record					
No.	Station and Offset				HA	TA	DC		A	W	S	G	E	T
	909+0	15 R	x			x		10						
50	913+0	15 L	x			x		10						
	917+0	15 L	x			x		10						
	921+0	15 L	x			x		10						
	924+0	15 L	x			x		10						
	928+0	15 L	x			x		10						
55	932+0	15 L	x			x		10						

MONTGOMERY COUNTY

MOT-49-14.19



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OHIO DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

Reconn. By:----------Co., Rt., Sec.:-[redacted]----

----------Bridge No: ----------

Date:----------Job No.:----------

Sheet 1 of ____

Borings No.	Station and Offset		RURAL	URBAN	Type HA	TA	DC	DEPTH	Check Clearance Req'd A	W	S	G	E	T
1	724+00	20'Rt	X			X		10						
2	728+00	15'RT	X			X		10						
3	732+00	15'LT	X			X		10						
4	735+00	15'LT	X			X		10						
5	740+00	5'RT	X			X		10						
6	742+00	10'RT	X			X		15						
7	744+00	15'LT	X			X		10						
8	748+00	15'LT	X			X		10						
9	752+00	15'RT	X			X		10						
10	756+00	15'RT	X			X		10						
11	760+00	15'RT	X			X		10						
12	763+00	CL	X			X		10						
13	766+00	15'LT	X			X		10						
14	770+00	15'RT	X			X		12						
15	774+00	15'RT	X			X		10						

HA=Hand auger or other hand method
TA=Truck-mounted auger
DC=Drive Sample or rock core

A=Access to Private Property
W=Water lines
S=Sewer lines
G=Gas lines
E=Electrical Cables
T=Telephone Cables

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

Continued - Sheet ____ of ____

CO., RT., SEC. MOT-49-14.19

Borings			RURAL	URBAN	Type			DEPTH	Check Clearance Record					
No.	Station and Offset				HA	TA	DC		A	W	S	G	E	T
16	778+00	15'RT	X			X		10						
17	781+00	15'RT	X			X		10						
18	785+00	15'RT	X			X		10						
19	789+00	15'RT	X			X		10						
20	793+00	15'LT	X			X		10						
21	797+00	15'LT	X			X		10						
22	801+00	15'LT	X			X		10						
23	805+00	15'RT	X			X		10						
24	809+00	15'RT	X			X		10						
25	812+00	15'RT	X			X		10						
26	816+00	15'RT	X			X		10						
27	820+00	15'RT	X			X		10						
28	824+00	15'RT	X			X		10						
29	828+00	15'RT	X			X		10						
30	832+00	15'RT	X			X		10						
31	836+00	15'RT	X			X		10						
32	840+00	15'RT	X			X		10						
33	844+50	20'LT	X	X		X		10		X		X		
34	849+00	20'LT	X	X		X		10		X		X		
35	852+90	20'LT		X		X		10		X		X		
36	857+75	20'LT		X		X		10		X		X		
37	861+40	20'LT		X		X		10		X		X		
38	865+45	20'LT		X	X			10		X		X		
39	868+10	20'LT	X	X		X		10		X		X		

FOUNDATION EXPLORATION SECTION

SCHEDULE OF TEST BORINGS

Continued - Sheet ____ of ____

CO., RT., SEC. MOT-49-14.19

Borings			RURAL	URBAN	Type			DEPTH	Check Clearance Record					
No.	Station and Offset				HA	TA	DC		A	W	S	G	E	T
40	872+00	20'LT		X		X		10		X		X		
41	876+50	20'LT		X		X		10		X		X		
42	880+00	15'RT		X		X		10		X		X		
43	884+00	15'RT		X		X		10		X		X		
44	889+00	15'LT	X			X		10						
45	893+00	15'RT	X			X		10						
46	897+00	15'LT	X			X		10						
47	901+00	15'LT	X			X		10						
48	905+00	15'RT	X			X		10						
49	909+00	15'RT	X			X		10						
50	913+00	15'LT	X			X		10						
51	917+00	15'LT	X			X		10						
52	921+00	15'LT	X			X		10						
[illegible]	924+00	15'LT	X			X		10						
54	928+00	15'LT	X			X		10						
55	932+00	15'LT	X			X		10						

VISUAL CLASSIFICATION OF SOIL SAMPLES

PROJECT: MoT-49-14.19

DRILLER: FOREMAN, CLASSIFIED BY: D.D.P, DATE: 4-3-61

Field No.	Visual Description	Consistency	Moist. Cont.
1 F	BR. S.C.M. & GRAVEL	LOOSE	DAMP
2 F	BR. S.C.M. W/LITTLE GRAVEL ASSORTED	MED	M.
3 F	BR. S.C.M W/LITTLE GRAVEL ASSORTED	MED	M.
4 F	BR. S.C.M. & GRAVEL	MED	M-
5 F	GRAY S.C.M. W/LITTLE GRAVEL & LITTLE STONE FRAGS	MED	M7
6 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
7 F	BR.-GRAY S.C.M. W/LITTLE GRAVEL T.O. ORGANIC	SOFT	M7
8 F	GRAY S.C.M. T.O. GRAVEL		M+
9 F	GRAY S.C.M. W/LITTLE GRAVEL & LITTLE STONE FRAGS.	STIFF	DAMP
10 F	BR. S.C.M. T.O. GRAVEL	MED	M
11 F	BR.-GRAY S.C.M & GRAVEL	MED	M7
12 F	GRAY M.S. & GRAVEL	LOOSE	M+
13 F	GRAY S.C.M. W/SOME GRAVEL	MED	M7
14 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
15 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
16 F	GRAY S.C.M SOME GRAVEL	DENSE	DAMP
17 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M
18 F	BR. S.C.M. & GRAVEL	MED	M7
19 F	DARK BR. S.C.M. W/SOME GRAVEL ASSORTED	DENSE	M
20 F	DARK BR. S.C.M. W/SOME GRAVEL ASSORTED	DENSE	M
21 F	BR. S.C.M. T.O. SMALL SIZE GRAVEL	MED	M7
22 F	BR. S.C.M. T.O. SMALL SIZE GRAVEL	MED	M7
23 F	GRAY-BR. S.C.M. T.O. GRAVEL & STONE FRAGS.	MED	M7
24 F	BR. M.S.	LOOSE	M+
25 F	BR. S.C.M. T.O. SMALL SIZE GRAVEL	MED	M
26 F	BR. S.C.M. W/SOME GRAVEL	SOFT	M7
27 F	BR. M.S. & GRAVEL	MED	M+
28 F	BR. S.C.M. T.O. GRAVEL	MED	M
29 F	MOTT. BR.-GRAY S.C.M W/LITTLE GRAVEL ASSORTED	MED.	M7
30 F	GRAY S.C.M. W/SOME GRAVEL	MED	M7
31 F	BR. S.C.M W/LITTLE GRAVEL	MED	M
32 F	BR. S.C.M. W/SOME GRAVEL ASSORTED	MED	M
33 F	BR. S.C.M. W/LITTLE GRAVEL ASSORTED	MED	M
34 F	BR. S.C.M. W/SOME GRAVEL & STONE FRAGS.	MED	M
35 F	DARK BR. S.C.M W/SOME GRAVEL & STONE FRAGS	DENSE	DAMP
36 F	BR. S.M.S. T.O. SMALL SIZE GRAVEL	MED.	M7
37 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
38 F	GRAY S.C.M. W/SOME GRAVEL & STONE FRAGS.	MED	DAMP
39 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M
40 F	BR.-GRAY S.C.M. W/LITTLE GRAVEL T.O. STONE FRAGS.	MED	M
41 F	DARK BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	DENSE	DAMP
42 F	BR. S.C.M. W/LITTLE GRAVEL T.O. ROOTS	MED	M7
43 F	BR. S.C.M. W/SOME GRAVEL (ASSORTED)	MED	M
44 F	GRAY S.C.M & GRAVEL	DENSE	DAMP
45 F	GRAY M.S. & GRAVEL ASSORTED	LOOSE	WET
46 F	BR. S.C.M. W/SOME GRAVEL	MED	M=
47 F	BR. S.C.M. & GRAVEL		M=
48 F	GRAY C.S.M. & STONE FRAGS.	VERY DENSE	DAMP
49 F	BR. S.C.M. T.O. SMALL SIZE GRAVEL	MED	M7
50 F	BR-GRAY S.C.M W/LITTLE GRAVEL	MED	M+7

VISUAL CLASSIFICATION OF SOIL SAMPLES

PROJECT: MoT - 49-14-19

DRILLER: FOREMAN, CLASSIFIED BY: D.A.P., DATE: 4-3-61

Field No.	Visual Description	Consistency	Moist. Cont.
51 F	DARK BR. S.C.M. W/LITTLE GRAVEL	MED	M
52 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M=
53 F	MOTT. BR-GRAY/S.C.M. W/LITTLE GRAVEL	MED	M
54 F	BR. S.C.M. & GRAVEL & STONE FRAGS.	MED	M
55 F	BR. S.C.M. W/SOME GRAVEL ASSORTED	MED	M7
56 F	GRAY S.C.M. W/SOME GRAVEL & STONE FRAGS	SOFT	M+
57 F	GRAY S.C.M. W/SOME GRAVEL ASSORTED	SOFT	M+
58 F	GRAY-BR. S.C.M. W/LITTLE GRAVEL	MED	M=
59 F	BR/S.C.M. W/LITTLE GRAVEL	MED	M=
60 F	MOTT. BR.-GRAY S.C.M. W/SOME GRAVEL ASSORTED	MED	M7
61 F	BR. S.C.M. W/LITTLE GRAVEL	DENSE	DAMP
62 F	GRAY & BR. C.S.M. & GRAVEL ASSORTED	LOOSE	M+
63 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
64 F	BR. S.C.M. T.O. GRAVEL & STONE FRAGS.	MED	M7
65 F	GRAY S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	DENSE	DAMP
66 F	BR. S.M.C. T.O. GRAVEL	MED	M7
67 F	BR. C.S.M. W/LITTLE GRAVEL & STONE FRAGS	DENSE	DAMP
68 F	BR-GRAY S.C.M. T.O. SMALL SIZE GRAVEL	MED	M=
69 F	BR. S.C.M. W/LITTLE GRAVEL STONE FRAGS.	MED	M=
70 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M
71 F	BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	MED	M
72 F	BR. S.C.M. W/LITTLE GRAVEL & ROOTS	MED	M=
73 F	BR. S.C.M. W/LITTLE GRAVEL ASSORTED	MED	M
74 F	BR-GRAY S.M.C. T.O. SMALL SIZE GRAVEL	MED	M7
75 F	MOTT. BR-GRAY S.M.C. T.O. SMALL SIZE GRAVEL	MED	M
76 F	BR. S.C.M. & GRAVEL	SOFT	M+
77 F	BR. S.C.M. W/LITTLE GRAVEL	MED	M7
78 F	BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS	MED	M=

VISUAL CLASSIFICATION OF SOIL SAMPLES

PROJECT: MOT 49 - 14.19

DRILLER: Schitz, CLASSIFIED BY: DHP FLR, DATE: 3/30/61 3/31/61

	Field No.		Visual Description	Consistency	Moist. Cont.
FLR	1	Y	BRN SM + Gravel, Possible Fill		Wet
	2	Y	BRN & GR, MC, TO Small Gravel + Twig	Stiff	M =
	3	Y	BRN, SCM, w/ little Gravel	M	M =
	4	Y	BRN SM, + Gravel, TO Twig		M
	5	Y	GR-BRN, SCM, TO Small Gravel + Root	M	M =
DHP	6	Y	BRN, SMC w/some Gravel, TO Coal Blossom	M	M
	7	Y	BRN SCM w/some 2.5" Gravel, (assorted)	M	M =
	8	Y	BRN, SCM + 2.5. Gravel	M	M
	9	Y	BRN, SCM, w/little Small Size Gravel, TO Roots	M	M
	10	Y	BRN, SCM w/some Gravel	M	M
	11	Y	BRN, SCM w/ little Gravel	M	M
	12	Y	BRN, CSM, w/ little Gravel	M	M
FLR	13	Y	GR + BRN SCM TO Gravel	M	M =
	14	Y	BRN, SCM w/ little Gravel (assorted).	M	M =
	15	Y	BRN, SCM TO Gravel (assorted) TO Roots	M	M =
	16	Y	Mott BRN & GR, SMC TO Gravel	M	M =
	17	Y	BRN-GR, CSM w/little Gravel (assorted)	Soft	M +
	18	Y	GR SCM w/some Gravel	Dense	Damp
	19	Y	Mott BRN & GR, SCM, w/little Gravel	M	M =
	20	Y	BRN, SCM, TO Gravel	M	M =
	21	Y	GR-BRN, MCS + Gravel	Loose	M
	22	Y	GR + BRN, SCM, TO Gravel	M	M
	23	Y	BRN MCS w/some Gravel	Soft	M =
	24	Y	DK BRN MC, TO Small Gravel	Stiff	M =
	25	Y	BRN + GR SCM, TO Small Gravel	M	M =
	26	Y	BRN SCM, TO Gravel (assorted)	Loose	M
	27	Y	BRN + GR, SMC, TO Gravel	M	M =
	28	Y	BRN SCM w/some Gravel (assorted)	Soft	M =
	29	Y	BRN, SCM, w/some Gravel	M	M =
	30	Y	BRN SCM w/little Gravel (assorted)	M	M
	31	Y	RED-BRN SCM, TO Gravel (assorted)	M	M =
	32	Y	BRN SCM + Gravel	M	M =
	33	Y	BRN SCM, w/little Gravel	M	M =
	34	Y	Lt BRN, SCM + weathered Gravel		M
	35	Y	Lt BRN, MS TO Gravel	Soft	M +
	36	Y	GR-BRN SCM w/TO Gravel (assorted)	M	M =
DHP	37	Y	BRN MS, w/ little Gravel	Loose	Damp
	38	Y	BRN SCM w/some Gravel (assorted)	M	M =
	39	Y	BRN + GR SCM + Gravel		M
	40	Y	Ditto		M +
	41	Y	Ditto		M =
	42	Y	BRN CSM, TO Gravel + Roots	M	M
	43	Y	BRN + GR SCM, TO Small Size Gravel	M	M =
	44	Y	BRN SC + M + Gravel	M	M =
	45	Y	BRN SCM w/some Gravel	M	M =
	46	Y	Mott SCM w/some Gravel	M	M =
	47	Y	BRN CSM + Gravel		M
	48	Y	Ditto		
	49	Y	BRN-GR SCM w/some Gravel	M	M =
	50	Y	BRN SC + M w/some Small Size Gravel		M +

VISUAL CLASSIFICATION OF SOIL SAMPLES

PROJECT: NOT 49-14.17

DRILLER: Shift, CLASSIFIED BY: DAP, DATE: 9/31/61

Field No.	Visual Description	Consistency	Moist. Cont.
51 Y	BRN. SCM. w/ Little Gravel TO Rust + Iron Stain	M	M
52 Y	ORN+GR. MS + weathered L.S. Gravel		M+
53 Y	ORN. SCM TO Gravel	M	M>
54 Y	BRN, SCM + Gravel		M
55 Y	BRN, SCM + Gravel (assorted)	M	M>
56 Y	BRN, SCM w/some Gravel (assorted)	Soft	M+
57 Y	BRN, SCM w/Little Gravel (assorted)	M	M>

VISUAL CLASSIFICATION OF SOIL SAMPLES

PROJECT: MOT - 49 - 14.19

BAG 5

DRILLER: DICKASON, CLASSIFIED BY: D.A.P., DATE: 4-17-61

Field No.	Visual Description	Consistency	Moist. Cont.
1-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
2-D	BR. S.M.C. & GRAVEL	MED.	M+7
3-D	BR. S.M.C. & GRAVEL	SOFT	M+7
4-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
5-D	BR. M.S. & GRAVEL	LOOSE	DAMP
6-D	BR.-GRAY S.C.M. W/LITTLE GRAVEL	MED	M=
7-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
8-D	BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	CONT W/BLACK TOP	M
9-D	BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	MED	M=
10-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
11-D	BR. S.C.M. W/SOME GRAVE CONT. WITH BLACK TOP	MED.	M
12-D	BR. S.C.M. W/SOME GRAVEL T.O. BLACK TOP	MED.	M
13-D	BLACK TOP W/STONE FRAGS (NO TEST)		
14-D	DARK BR. S.C.M W/GRAVEL CONT. W/BLACK TOP		M
15-D	BR. S.C.M. W/LITTLE GRAVEL	MED.	M7
16-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
17-D	BR. S.C.M. W/GRAVEL & STONE FRAGS.	MED.	M
18-D	BR. S.C.M. W/GRAVEL & STONE FRAGS.	MED.	M
19-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
20-D	BLACK TOP W/LITTLE SAND & GRAVEL (NO TEST)		
21-D	BR. S.C.M. W/LITTLE GRAVEL & STONE FRAGS.	MED.	M7
22-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
23-D	BR. M.S. & GRAVEL & STONE FRAGS.	LOOSE	DAMP
24-D	BR. S.C.M. W/LITTLE GRAVEL	MED.	M
25-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
26-D	BR. S.C.M. & GRAVEL & STONE FRAGS. CONT W/BLACK TOP	MED.	M
27-D	BR. S.C.M. W/SOME GRAVEL & STONE FRAGS.	MED.	M
28-D	BLACK TOP W/STONE FRAGS (NO TEST)		
29-D	BR. S.C.M. W/GRAVEL & STONE		M
30-D	BR. S.M.C. W/LITTLE GRAVEL	MED.	M7
31-D	BLACK TOP W/STONE FRAGS (NO TEST)		
32-D	BR. S.M.C. W/LITTLE GRAVEL	MED.	M
33-D	BR. S.C.M. W/SOME GRAVEL & STONE FRAGS.	MED.	M
34-D	BLACK TOP W/STONE FRAGS. (NO TEST)		
35-D	BR. S.M.C W/LITTLE GRAVEL	MED.	M
36-D	BR. S.M.C W/LITTLE GRAVEL	MED.	M7

TE 54 A
200 4 50

GENERAL INFORMATION

INTRODUCTION

The project consists predominantly of the widening and resurfacing of 14.0 miles of SR 149, beginning 0.6 mile northwest of Clayton, at USR 40, extends to the northwest through Phillipsburg, terminating at the SR 48 - SR 721 junction, immediately north of the Montgomery-Miami County line.

The project is essentially comprised of widening and resurfacing, with two short sections of slight grade changes consisting of cut, maximum 3 feet in depth, and fill, maximum 3 feet in height.

GEOLOGY OF THE PROJECT

The alignment traverses a glaciated, slightly dissected portion of the Till Plain, where soil cover is reported to be relatively shallow - on the order of 10 to 20 feet in thickness. Local bedrock consists of shales and limestone, Silurian in age.

EXPLORATION

Exploratory borings were made by means of truck mounted mechanical earth auger on March 27 and 28, 1961.

INVESTIGATIONAL DISCLOSURES

The material immediately below grade consists predominantly of sandy silt and silt clay, in the A-4a and A-7-5 classifications. Frost susceptible silt was encountered within 3 feet below grade between stations 725+00 and 732+00, 740+00 and 742+00, at stations 759+00, 760+00, 769+00, 770+00, 772+00, 836+00, 840+00, 851+00, 895+00, 881+00, and 888+00, between stations 897+00 and 905+00, and at stations 913+00 and 921+00. Wet soils, sandy silt and silt clay, in the A-4a and A-6a classifications, from 1 to 5 feet in thickness, were encountered at surface at stations 797+00, 805+00, 815+00, 828+00 and 909+00.

In the embankment foundation, material consists of sandy silt and clay, in the A-4a and A-7-5 classifications.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 135 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	67	15	7	6	5	20	2	13	3
Gravel with sand	A-1-b (0)	A-1-b	42	26	17	9	6	NP	NP	25	2
Gravel with sand and silt	A-2-4 (0)	A-2-4	48	9	15	20	8	25	4	15	8
Sandy silt	A-4 (4)	A-4a	22	9	16	31	22	22	6	14	95
Silt	A-4 (8)	A-4b	14	4	6	67	9	23	2	24	2
Silt and clay	A-6 (6)	A-6a	11	6	13	36	34	31	12	24	26
Silty clay	A-6 (10)	A-6b	15	4	10	32	39	37	17	21	6
Clay	A-7-6 (14)	A-7-6	0	4	9	41	46	45	22	26	3

Bouldery Zone

Auger boring, plotted to vertical scale only.

Topsoil ext. Approximate depth.

Berm material.

Auger boring - plan view.

Water Content nearly equal to or greater than liquid limit.

Indicates a non-plastic material with high water content.

W Free water.

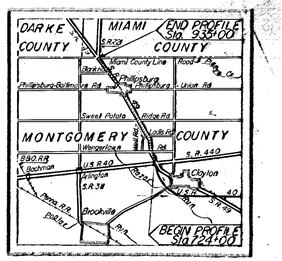
Note: Figures beside borings indicate water content in percent, e.g. 15

SOIL PROFILE
MONTGOMERY COUNTY
MOT-49-14.19

1/5

OHIO STATE HIGHWAY TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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.



LOCATION MAP

Recon - N.P.L. 3-14-15-61

Drilling: Auger-J.R.F., F.S.-3-27-61, 3-28-61

Drafting - R.L.G. 4-28-61

SUMMARY OF SOIL TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% M.C.	SHTL CLASS.
720+00	20' Rt	0.5-5.0	21	9	17	33	20	22	8	12	A-4a *
		5.0-10.0	22	7	15	32	24	18	4	12	A-4a
720+10	15' Rt	0.5-5.0	19	8	18	33	22	21	3	11	A-4a *
		5.0-8.0	17	9	16	31	27	21	0	11	A-4a
		8.0-10.0	22	8	11	35	24	24	5	13	A-4a
732+00	15' Lt	0.5-3.0	20	9	12	35	24	29	9	24	A-4a *
		3.0-4.0	21	7	16	34	22	27	12	20	A-6a
		4.0-7.0	10	11	27	36	16	NP	NP	15	A-4a
		7.0-10.0	26	12	19	26	17	15	2	10	A-4a
733+00	15' Lt	0.5-3.0	11	6	13	35	35	33	12	21	A-6a *
		3.0-5.0	45	2	6	28	19	38	16	33	A-6b
		5.0-8.0	47	17	10	20	6	NP	NP	12	A-2-4
		8.0-10.0	23	8	17	29	23	17	4	11	A-4a
740+00	5' Rt	0.5-5.0	16	8	14	34	28	21	7	15	A-4a *
		5.0-8.0	23	9	15	31	22	27	7	11	A-4a
		8.0-10.0	16	8	14	31	31	20	6	12	A-4a
742+00	10' Rt	0.5-5.0	18	9	17	33	23	19	4	12	A-4a *
		5.0-7.0	29	9	15	27	20	18	4	13	A-4a *
		7.0-10.0	21	7	11	38	22	20	7	11	A-4a
		10.0-13.0	23	9	14	29	23	24	10	11	A-4a
759+00	15' Lt	0.5-3.0	16	8	14	12	22	24	3	15	A-4a *
		3.0-6.0	0	2	4	45	19	49	25	26	A-7-6
		6.0-8.5	11	4	10	35	32	27	11	26	A-6a
		8.5-11.0	64	18	6	7	5	20	4	14	A-1-a
760+00	15' Lt	0.5-5.0	19	3	10	45	22	23	7	17	A-4a *
		5.0-8.0	38	4	15	36	17	27	7	23	A-4a
		8.0-10.0	73	10	6	7	4	20	3	13	A-1-a
762+00	15' Rt	0.5-5.0	10	4	11	30	45	39	17	23	A-6a *
		5.0-8.0	23	8	15	28	26	33	11	19	A-6a
		8.0-10.0	33	8	12	28	19	20	5	11	A-4a
766+00	15' Rt	0.5-5.0	21	9	12	34	24	24	8	13	A-4a *
		5.0-10.0	33	7	14	27	19	18	6	12	A-4a
770+00	15' Rt	0.5-5.0	20	11	17	32	20	19	4	11	A-4a *
		5.0-8.0	25	8	17	31	19	21	7	14	A-4a
		8.0-10.0	21	9	12	31	27	23	7	10	A-4a

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% M.C.	SHTL CLASS.
763+00	CL	0.5-3.0	0	3	8	45	41	49	22	26	A-7-6 *
		5.0-7.5	28	6	12	23	27	29	13	17	A-6a
		7.5-10.0	30	8	11	27	24	24	9	11	A-4a
769+00	15' Lt	0.5-5.0	28	8	14	30	23	22	8	12	A-4a *
		5.0-7.0	21	9	14	30	26	21	5	13	A-4a
		7.0-10.0	22	7	13	32	26	21	7	13	A-4a
770+00	15' Rt	0.5-2.0	34	6	8	31	21	27	9	22	A-4a *
		2.0-7.0	22	7	15	33	23	22	7	12	A-4a
		7.0-10.0	26	8	14	27	25	19	5	11	A-4a
		10.0-12.0	83	16	9	5	5	NP	NP	11	A-1-a
774+00	15' Rt	0.5-3.0	28	10	14	30	18	18	5	12	A-4a *
		3.0-8.0	32	9	9	19	11	26	8	18	A-2-4
		8.0-10.0	23	6	12	30	29	23	8	11	A-4a
778+00	15' Rt	0.5-3.0	20	3	10	38	27	33	14	23	A-6a *
		3.0-7.0	16	11	20	33	20	19	4	16	A-4a
		7.0-10.0	19	9	17	34	21	19	5	13	A-4a
781+00	15' Rt	0.5-5.0	28	8	15	28	21	19	4	12	A-4a *
		5.0-8.0	33	8	13	28	18	18	4	13	A-4a
		8.0-10.0	23	7	14	30	26	20	5	14	A-4a
785+00	15' Rt	0.5-5.0	23	7	15	32	23	30	11	25	A-6a *
		5.0-8.0	19	11	12	30	19	NP	NP	20	A-4a
		8.0-8.0	24	10	13	30	21	23	7	20	A-4a
		8.0-10.0	20	10	16	30	24	20	5	12	A-4a
789+00	15' Rt	0.5-3.0	20	8	14	29	20	26	9	14	A-4a *
792+00	15' Lt	0.5-3.0	45	7	11	22	15	22	6	17	A-4a *
		3.0-8.5	18	7	15	33	27	24	9	12	A-4a
		8.5-11.0	37	10	17	6	6	NP	NP	15	A-1-b
797+00	15' Lt	0.5-3.0	16	7	13	34	30	30	11	26	A-6a *
		3.0-8.0	23	9	15	30	23	22	7	16	A-4a
		8.0-10.0	21	8	11	36	25	21	6	10	A-4a
801+00	15' Lt	0.5-3.0	18	6	11	25	40	33	16	20	A-6b *
		3.0-10.0	21	7	15	28	28	22	8	11	A-4a
805+00	15' Rt	0.5-5.0	0	5	9	46	40	25	11	25	A-6a *
		5.0-10.0	26	9	15	28	22	19	5	11	A-4a

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% M.C.	SHTL CLASS.
808+00	15' Rt	0.5-3.0	32	8	13	29	19	21	6	13	A-4a *
		3.0-10.0	22	8	13	31	24	19	5	12	A-4a
812+00	15' Rt	1.0-6.0	32	5	14	23	24	23	7	14	A-4a *
		6.0-10.0	28	6	9	50	7	23	4	25	A-4b
816+00	15' Rt	1.0-5.0	17	4	9	47	23	31	12	29	A-6a *
		5.0-10.0	24	10	17	29	20	20	5	14	A-4a
820+00	15' Rt	1.0-5.0	0	3	11	39	45	30	11	26	A-6a *
		5.0-10.0	12	11	23	43	11	18	4	12	A-4a
824+00	15' Rt	1.0-4.0	0	7	12	43	38	32	13	20	A-6a *
		4.0-6.0	34	3	6	28	7	31	10	25	A-6a
		6.0-10.0	30	12	10	20	28	23	8	18	A-4a
828+00	15' Rt	1.0-2.0	2	2	53	16	27	NP	NP	23	A-4a *
		2.0-5.5	16	3	15	30	36	33	12	23	A-6a *
		5.5-7.0	0	14	21	45	19	22	7	20	A-4a
832+00	15' Rt	1.0-5.0	28	10	18	32	21	20	5	12	A-4a *
		5.0-7.0	18	8	13	30	31	37	11	18	A-6a
		7.0-10.0	14	11	35	25	15	NP	NP	11	A-4a
836+00	15' Rt	1.0-5.0	14	10	17	35	24	21	3	14	A-4a *
		5.0-7.0	18	9	15	30	28	22	5	14	A-4a
840+00	15' Rt	1.0-5.0	28	6	16	38	21	24	9	19	A-4a *
		5.0-7.5	34	8	11	27	20	25	7	16	A-4a
844+30	20' Lt	0.5-4.0	47	7	10	19	17	29	10	18	A-4a *
		4.0-8.0	26	9	13	28	22	22	7	13	A-4a
848+00	20' Lt	0.5-5.0	32	8	14	28	18	22	6	15	A-4a *
851+00	20' Lt	0.5-5.8	23	10	14	29	24	25	9	15	A-4a *
857+75	20' Lt	0.5-5.0	0	4	13	38	45	36	15	24	A-6a *
861+40	20' Lt	0.5-3.0	0	3	12	40	43	38	16	25	A-6a *
		3.0-6.5	58	6	8	10	8	23	7	15	A-2-4
868+30	20' Lt	1.0-5.0	0	12	15	23	50	34	13	21	A-6a *
880+00	20' Lt	1.5-5.0	13	7	16	44	19	22	3	16	A-4a *
		5.0-7.0	16	7	14	36	27	30	11	26	A-6a

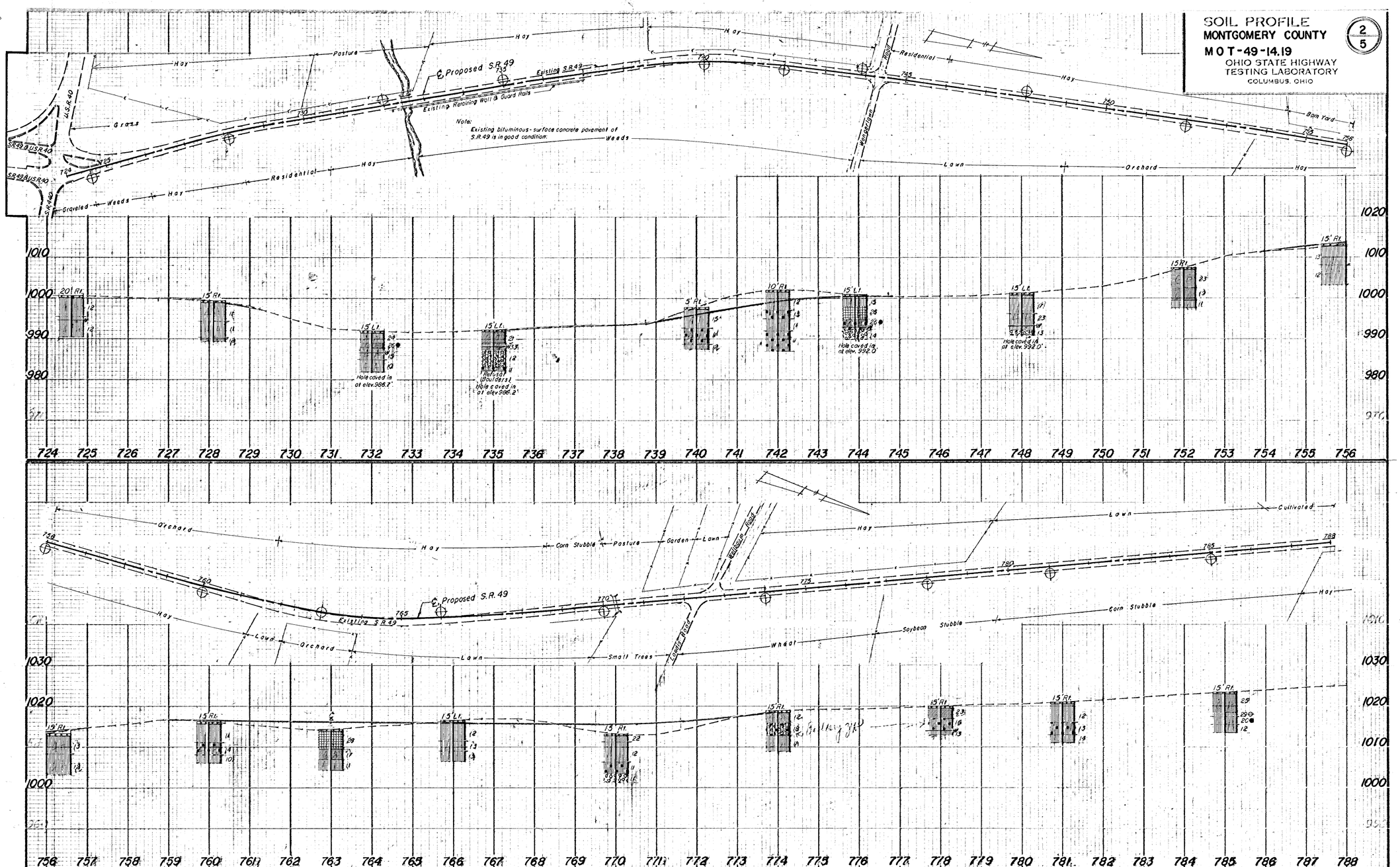
STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% M.C.	SHTL CLASS.
872+00	20' Lt	1.5-5.0	0	3	7	38	32	30	13	23	A-6a *
		5.0-7.0	10	8	13	34	35	3	21	14	A-4a
879+50	20' Lt	1.0-4.0	16	6	14	36	28	33	11	20	A-6a *
		4.0-7.0	33	7	37	10	4	NP	NP	20	A-2-4
880+00	15' Rt	1.0-4.0	0	12	10	47	31	34	15	23	A-6a *
		4.0-7.0	21	10	20	38	11	22	9	16	A-4a
884+00	15' Rt	1.0-6.0	0	2	3	64	11	NP	NP	23	A-4b *
		6.0-8.0	51	5	11	26	7	21	4	12	A-2-4
888+00	15' Lt	1.0-5.0	0	11	19	34	36	23	8	11	A-4a *
		5.0-8.0	0	5	15	32	48	33	11	25	A-6a
893+00	15' Rt	1.0-4.0	0	5	11	33	46	37	14	26	A-6a *
		4.0-8.0	0	2	9	42	47	37	14	24	A-6a
897+00	15' Lt	1.0-5.0	18	10	16	34	21	21	4	11	A-4a *
		5.0-7.0	28	14	15	24	20	22	7	14	A-4a
901+00	15' Lt	0.0-5.0	20	11	17	31	21	21	5	13	A-4a *
		5.0-8.0	18	10	17	39	36	21	7	14	A-4a
		8.0-10.0	37	14	22	17	10	NP	NP	8	A-2-4
905+00	15' Rt	0.0-2.0	14	11	15	34	26	23	7	21	A-4a *
		2.0-4.0	0	5	14	33	48	42	19	27	A-7-6 *
		4.0-7.0	0	12	24	32	23	29	5	23	A-4a
		7.0-10.0	27	6	11	28	28	24	11	16	A-6a
909+00	15' Rt	0.0-5.0	14	6	13	34	33	27	11	25	A-6a *
		5.0-10.0	21	8	13	35	23	20	5	11	A-4a
913+00	15' Lt	0.0-5.0	18	8	16	32	26	22	8	22	A-4a *
		5.0-10.0	15	9	18	36	22	NP	NP	11	A-4a
917+00	15' Lt	0.0-5.0	16	5	10	35	34	34	16	22	A-6a *
		5.0-10.0	22	8	15	31	24	20	4	11	A-4a
921+00	15' Lt	0.0-5.0	23	6	13	34	24	24	8	18	A-4a *
		5.0-10.0	16	10	16	33	25	20	7	12	A-4a
925+00	15' Lt	0.0-2.0	47	12	17	15	9	NP	NP	10	A-1-a *
		2.0-5.0	8	8	17	27	40	32	11	23	A-6a *
		5.0-10.0	32	5	13	26	24	21	5	20	A-4a
932+00	15' Lt	0.0-2.0	38	13	21	18	10	NP	NP	13	A-2-4 *
		2.0-5.0	0	4	11	35	50	39	17	25	A-6b *
		5.0-10.0	15	11	14	33	27	23	5	10	A-4a

TE 54.8
1500-10-60

SOIL PROFILE
MONTGOMERY COUNTY
MOT-49-14.19

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

2
5

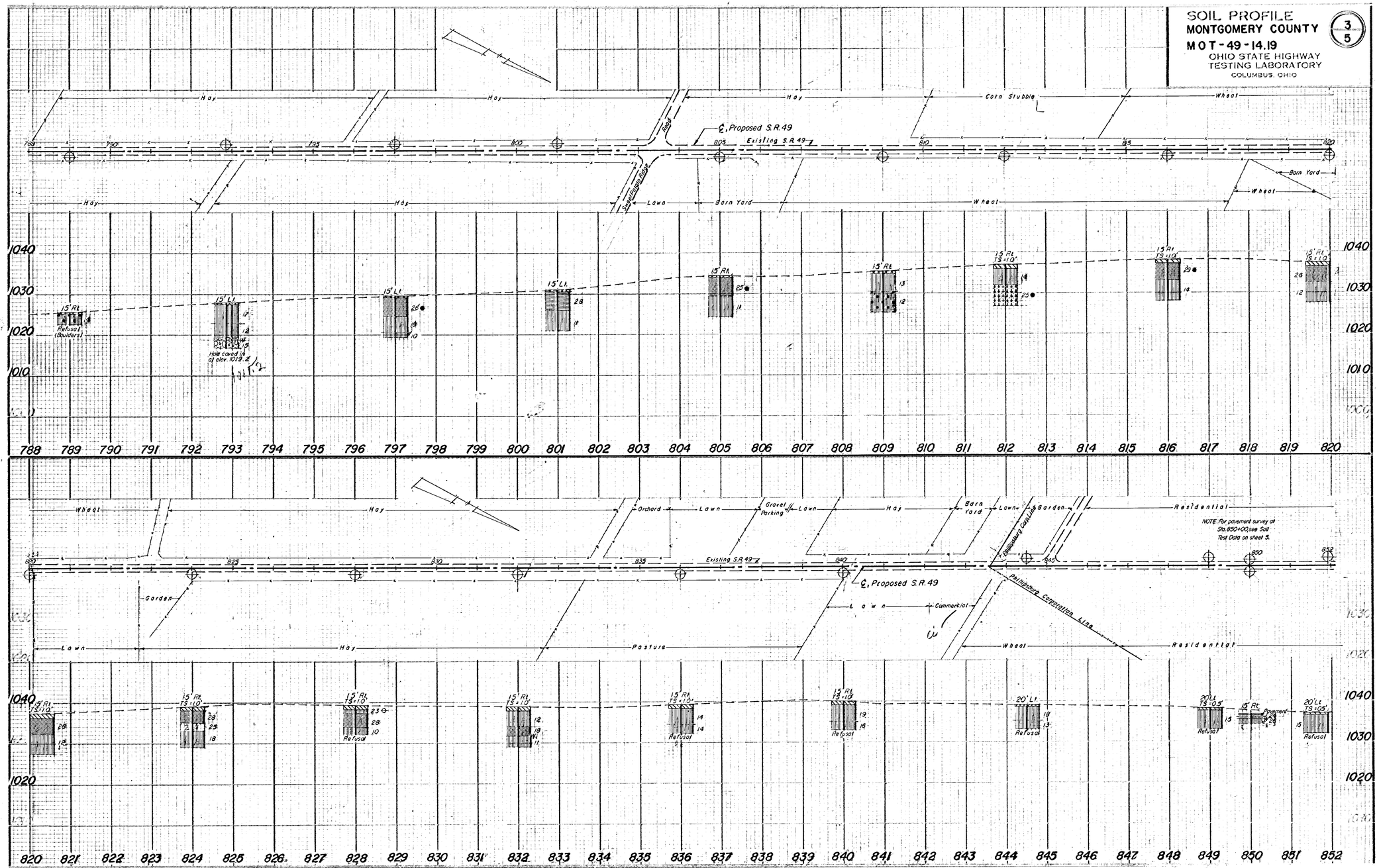


TE 24.8
1990 10 50

SOIL PROFILE
MONTGOMERY COUNTY
MOT-49-14.19

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

3
5

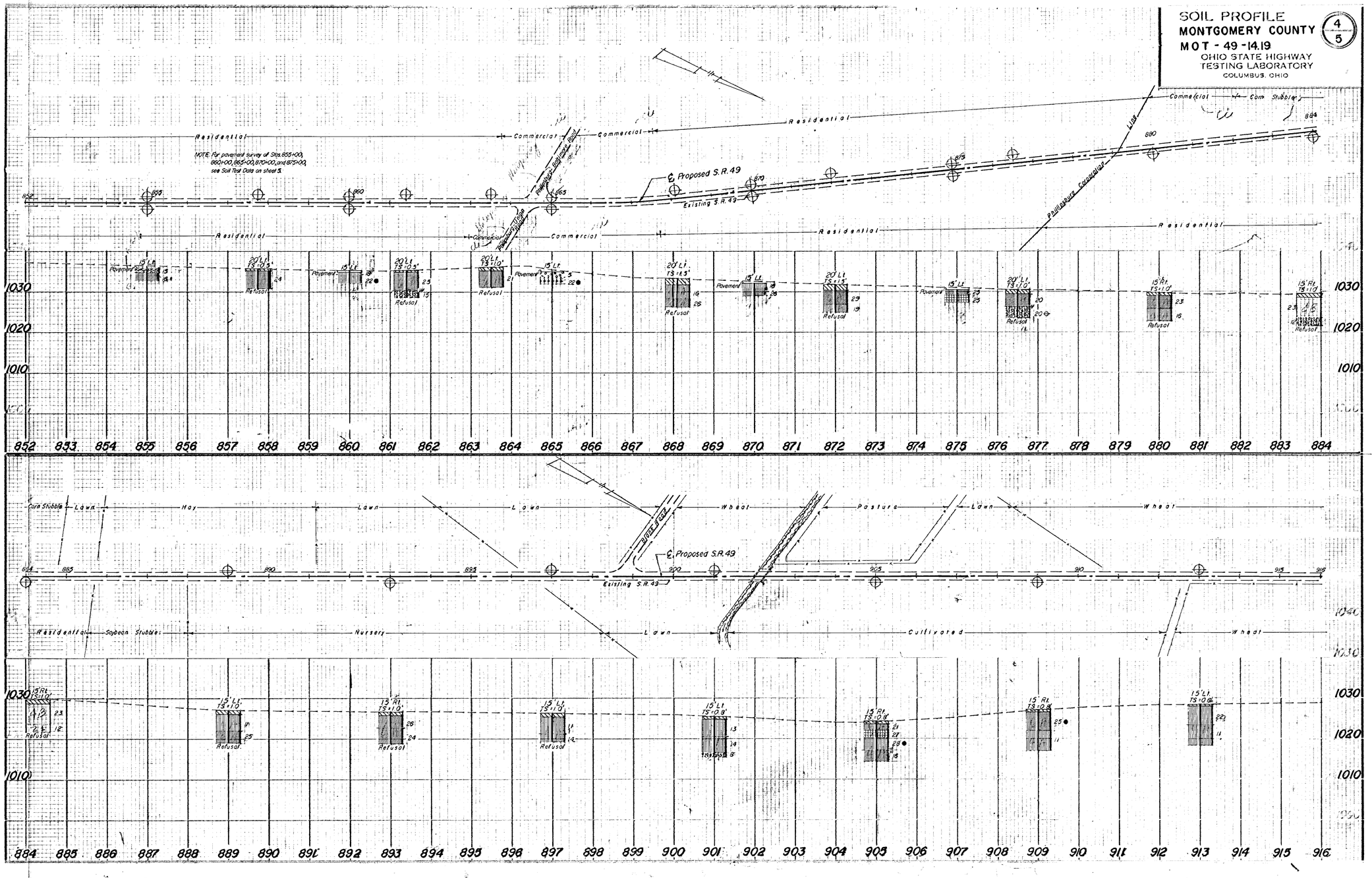


TE 54.8
1500 TO 50

SOIL PROFILE
MONTGOMERY COUNTY
MOT - 49 - 14.19

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

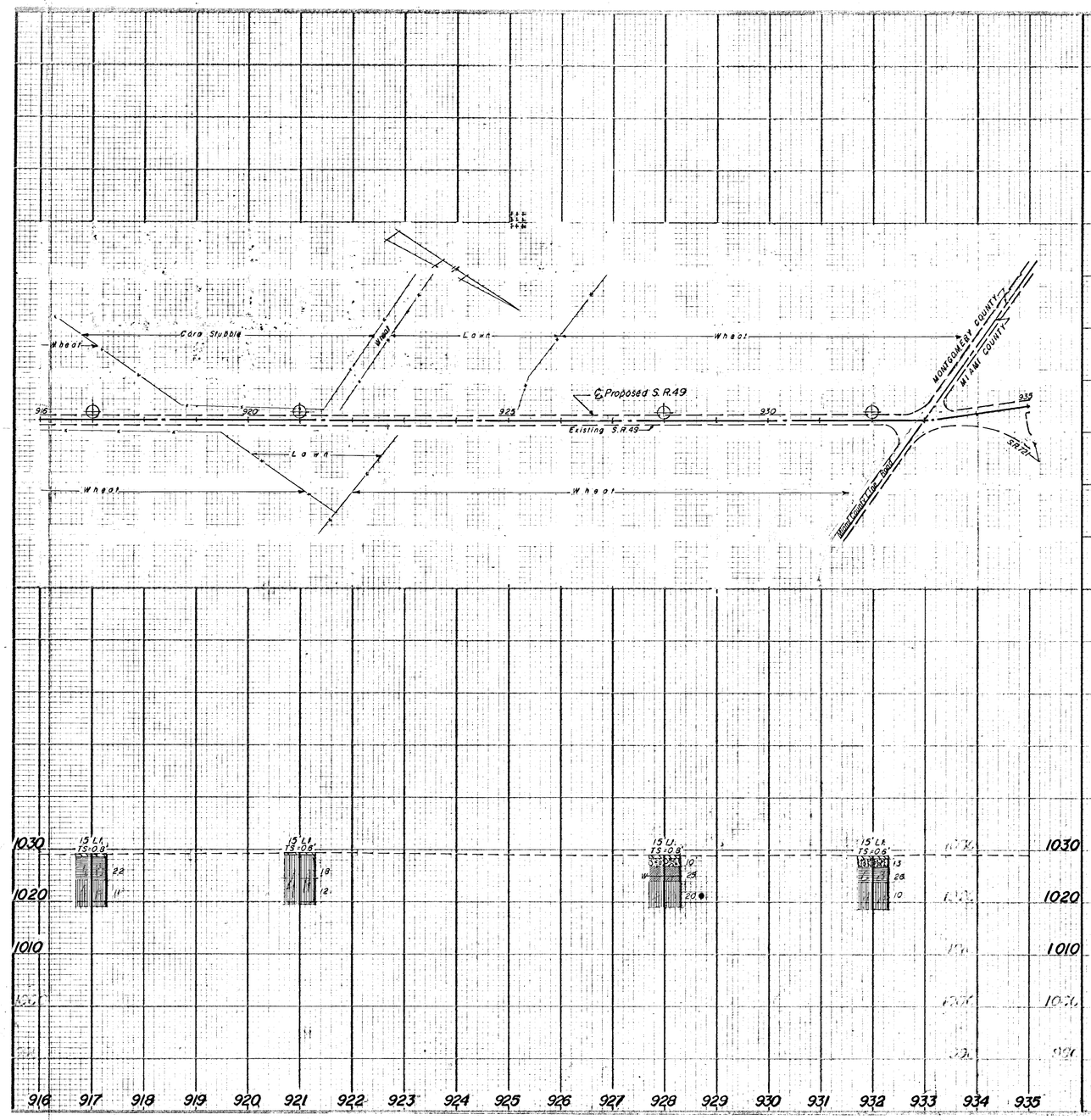
4
5



SOIL PROFILE
MONTGOMERY COUNTY
MOT - 49 - 14.19

OHIO STATE HIGHWAY TESTING LABORATORY
COLUMBUS, OHIO

5/5



SOIL TEST DATA
PAVEMENT SURVEY

NOTES: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes samples taken at or near grade.

STATION & OFFSET		DEPTH FROM-TO	% ACC.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% M.C.	SHTL CLASS.
650+00	15' Lt	0.0-0.2	Bituminous Pavement								Visual
		0.2-1.1	18	14	15	16	9	19	NP	9	A-1-b*
		1.1-2.0	0	5	9	18	37	27	8	24	A-4a*
650+00	15' Rt	0.0-0.3	Bituminous Pavement								Visual
		0.3-0.9	10	7	10	17	29	30	11	24	A-6a*
		0.9-3.5	14	8	14	28	36	33	13	26	A-6a*
655+00	15' Lt	0.0-0.2	Bituminous Pavement								Visual
		0.2-0.8	18	8	9	17	18	30	12	15	A-2-6*
		0.8-3.0	18	6	8	19	21	33	11	15	A-6a*
655+00	15' Rt	0.0-0.1	Bituminous Pavement								Visual
		0.1-0.5	18	5	8	19	20	32	10	18	A-4a*
		0.5-2.5	14	5	11	34	36	37	17	20	A-6a*
660+00	15' Lt	0.0-0.4	Bituminous Pavement								Visual
		0.4-0.9	22	9	10	29	33	32	10	18	A-4a*
		0.9-3.0	19	8	17	31	25	25	6	22	A-4a*
660+00	15' Rt	0.0-0.3	Bituminous Pavement								Visual
		0.0-0.8	52	8	6	7	7	24	5	9	A-1-b*
		0.8-3.0	10	3	8	34	45	42	10	25	A-7
665+00	15' Lt	0.0-0.2	Bituminous Pavement								Visual
		0.2-1.3	78	7	8	8	3	NP	NP	3	A-1-a*
		1.3-3.0	0	8	12	45	34	23	3	22	A-4a*
665+00	15' Rt	0.0-0.2	Bituminous Pavement								Visual
		0.2-1.3	Bituminous Pavement								Visual
		1.3-3.0	25	9	14	29	23	28	5	28	A-4a
670+00	15' Lt	0.0-0.2	Bituminous Pavement								Visual
		0.2-1.2	19	11	13	36	22	27	5	16	A-4a*
		1.2-3.0	0	4	18	48	30	33	14	26	A-6a*
670+00	15' Rt	0.0-0.1	Bituminous Pavement								Visual
		0.1-0.9	59	9	9	14	15	29	7	29	A-2-4*
		0.9-3.0	19	7	16	31	31	31	11	17	A-6a*
675+00	15' Lt	0.0-0.1	Bituminous Pavement								Visual
		0.1-1.1	32	5	10	27	25	33	14	25	A-6a*
		1.1-3.0	0	2	10	42	46	42	22	25	A-7-6*
675+00	15' Rt	0.0-0.1	Bituminous Pavement								Visual
		0.1-0.9	0	4	8	43	45	37	12	-	A-6a*
		0.9-3.0	29	9	12	29	25	29	11	12	A-4a*