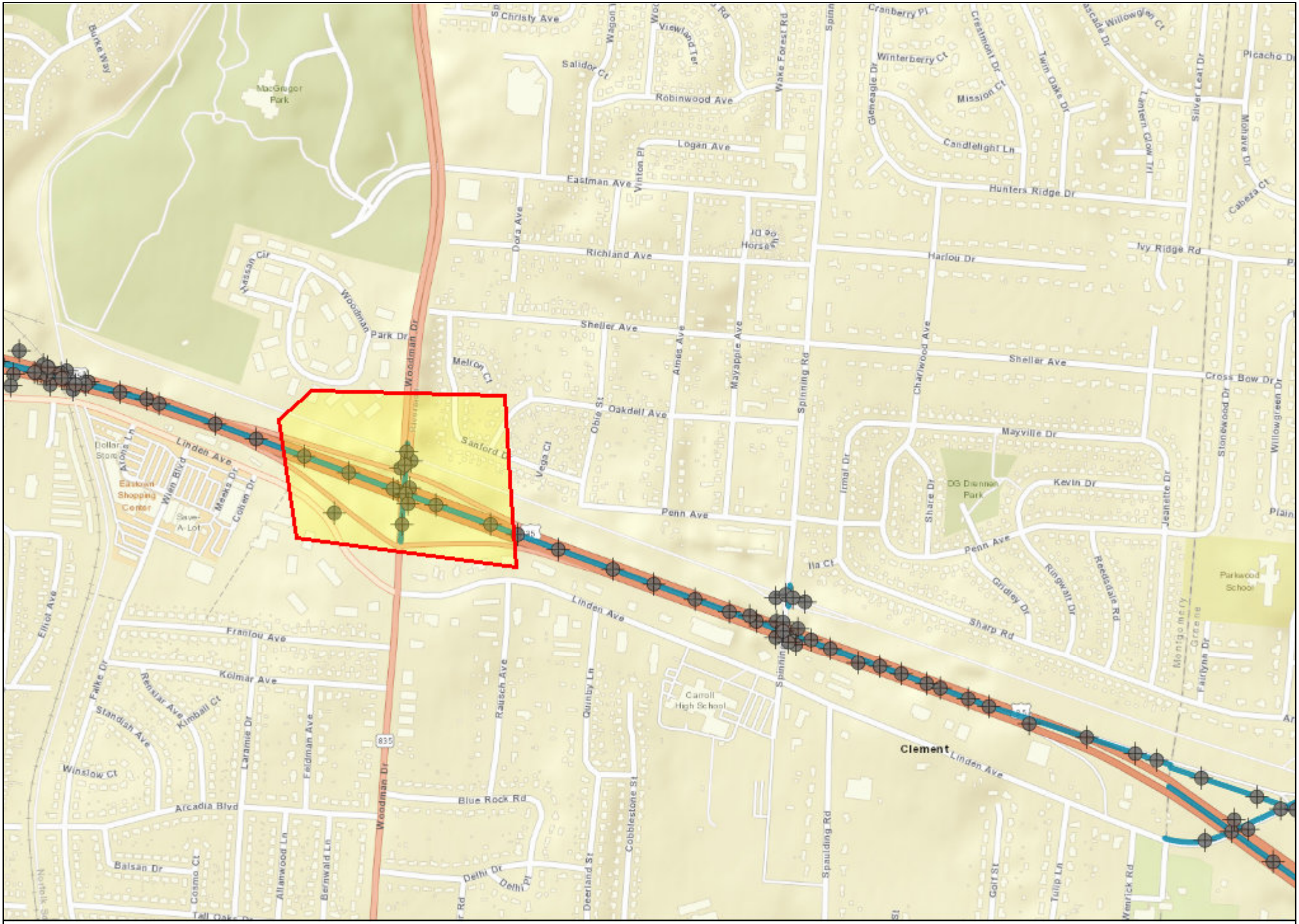

TIMS TRANSPORTATION INFORMATION MAPPING SYSTEM

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Date: 3/8/2023

1958
Year

Job. No. 08277
Changes _____

County MONTGOMERY
Bridge No. MOT-35-
Section MOT-GRE-35-19.39 (00)
☐ over ☐ under
Location WOODMAN PROJ. PROPOSED US 35

FES-24
File No. 14C-020/46-30

006563

DESIGN BY _____

	RECON	AUGER	CORE	DRIVE ROD
By			HOFF-NIXON MCKAHAN	SABO
Dates			4/3-10/58	4/3-11/58
No. of Holes or Soundings			3	8
Footage			135.0	244.0
Samples Tested			3	

SITE PLANS	
Date Rec'd	3-18-65
Revised Plan	

Topo Sheet _____

☐ Samples Accounted For

Transmittal Date 5/9/58
Revisions _____
Refer To _____

No. of Tracings _____ Filed with year _____
Remarks _____

Auger Data			Drive Rod		Core Data		
No. of Holes	Footage	Samples	No. of Soundings	Footage	No. of Holes	Footage	Samples
—	—	—	8	244.0	3	135.0	3

FIELD DATA - ROD PENETRATION

Location No. II 1 ✓ County: MONT. ~~35~~

W Footing Pier - Abut. Bridge No. MOT-35-

Station: 1050+06 ✓ ~~Over~~: WOODMOOR DR.

Offset: 99' LT. ✓ OVER PROP US R 35

Started: 4-8-58

Completed: 4-8-58 ✓ Equipment: 21-023

TOP OF PILE 904.6 ✓ D.R. Diameter 1.35

Ground Line 889.9 ✓ OVER

Proposed Footer

Depth Feet	Penetration	Elevation	
0			
			#7 #6
	1/16	889.9	4/5 1/16
5	2 1/2	884.9	
	3 1/4		45 26 #3
	1 15/16		
	3 1/2		Pure Rpt - 5' to water El = 884.9'
	3 1/16		
10	1 15/16	879.9	
	1 3/8		
	1 9/16		
	1 5/16		
	1 5/16	875.9	
15	7/8	874.9	
	3/4		
	1 1/16		
	7/16		
	3/8		
20	7/16	869.9	
	7/16	868.9	
	3/8		
	7/16		
	3/8		
25	3/16	864.9	

25		864.9	
26	1/4	863.9	
27	1/16	862.9 ✓	
30		~~859.9~~	
35			
40			
45			
50			
55			
60			

Rod Condition: Good ✓

Party Galentine · Alcherson

Chief of Party Sabo

MOT-35-19.34

OK

FIELD DATA - ROD PENETRATION

Location No. 3A County: MOT. 35

Pier - Abut. Bridge No. MOT-35 -

Station: 1050+30 Quad: Warrenton

Offset: 55' Rt. OVER PROP USR 35

Started: 4-9-

Completed: 9 Equipment:

Diameter

Ground Line Elevation 872.0

OVER

Proposed Footer

Depth Feet	Penetration	Elevation
0		
5.6	2 5/8	888.0
5	2 1/4	887.0
3.9	3 7/8	
	2 5/8	
	2 5/8	
	2 1/8	
8.5 10	1 1/4	882.8
8.7	1 3/16	881.0
10.5	1 3/16	880.0
11.0	3/4	
12.5	9/16	
13.0 15	1/2	877.0
13.0	1/2+	
13.0	1/2	
13.5	7/16	
13.5	7/16	
15.0 20	5/16	872.0
17.0	3/16	871.0
19.0 22.0	1/16	870.0
25		

Party CARLENTINE MARCH

25	
30	
35	
40	
45	
50	
55	
60	

Rod Condition: Good

Chief of Party SAHO

FIELD DATA - ROD PENETRATION

Location No. #4 ✓ County: Montgomery
~~Pier~~ Pier - ~~Abut.~~ Bridge No. MOT-35-
Station: 1251+08 ✓ ~~Over~~ Woodgrove Dr.
Offset: 57 LH ✓ ~~OVER~~ PROP US R-35 U.S. R. 35
Started: 4-8-58
Completed: 4-8-58 ✓ Equipment: 21-0-79
D.R. Diameter 1.35
Ground Line Elevation 887.7 ✓ OVER
Proposed Footer

Depth Feet	Penetration		Elevation	
0				
4.5	3	1/4	883.7	
6.1 5	2	1/8	882.7	
5.5	2	7/16		
6.0	2	3/16		
6.3	2	-		
7.5	1	9/16		
7.5 10	1	7/16	877.7	
9.0	1	1/8		over wgt check 1/4
9.2	1	3/16		
9.5	1	1/16		
9.6	1	-	873.7	
11.0 15	-	3/4	872.7	
12.0	-	5/8		
13.8 13.0	-	1/4		
13.0	-	1/4		
13.0	-	1/4		
13.0 20	-	1/4	867.7	
14.0	-	5/8		
15.0	-	5/16		
15.0	-	3/16		
16.0	-	1/4		
25	-	1/4	862.7	

R	Depth		Elevation	
	25		862.7	
13.5	-	7/16	861.7	
14.0	-	3/8		
14.0	-	3/8		
13.0	-	1/4		
14.0 30	-	3/8	857.7	
14.0	-	3/8		
16.0	-	3/8		
18.0		1/8+		
18.0		1/8		
19.0 35		1/16	852.7	
	40			
	45			
	50			
	55			
	60			

Rod Condition: Good ✓

Party Moreland Balint

Chief of Party Sabo

FIELD DATA - ROD PENETRATION

Location No. 14 ✓ County: MONTGOMERY

~~Abut.~~ Pier ✓ Bridge No. MOT-35-

Station: 1051 - 35 ✓ [redacted] WOODMAN DR.

Offset: 45' LT. ✓ OVER ~~Abut~~ PROP US RT 35 US. RT. 35

Started: 4-9-58

Completed: 4-9-58 ✓ Equipment: 21-0-29

D.R. Diameter 1.35

Ground Line OVER

Depth Feet	Penetration		Elevation	Proposed Footer
			896.0 ✓	
0				
3.3	4	1/16	886.0	
4.2	3	1/2	835.0	
5	2	7/8		
	1	3/4		
	1	1/2		
	1	3/16		
10	1	-	820.0	
9.6	1	-	879.0	
12.0	-	5/8	878.0	
12.5	-	9/16		
	-	9/16		
15	-	9/16	875.0	
13.0	-	1/2		
12.0	-	5/8		
12.0	-	5/8		
16.5	-	11/16		
11.0	-	3/4	870.0	
12.5	-	9/16		
12.0	-	5/8		
12.0	-	5/8		
12.0	-	5/8		
12.5	25 -	9/16	865.0	

Ft.	Depth			
	25		865.0	
13.0		- 1/2	864.0	
13.0		- 1/2		
13.0		- 1/2		
12.5		- 9/16		
9.6	30	1 -	860.0	
11.5		- 11/16		
12.0		- 5/8		
17.0		3/16		
16.0		1/4		
18.0	35	1/8	855.0	
20.0	35.0	0 +	854.0	
	40		850.0	
	45			
	50			
	55			
	60			

Rod Condition: Good ✓

Party McAcland Balint

Chief of Party SABo

FIELD DATA - ROD PENETRATION

Location No. #5 ✓ County: MoT.

Center ✓ ~~Pier~~ - ~~Abut~~. Bridge No. MOT-35-

Station: 1050+35 ✓ ~~Over~~ Waddington

Offset: ℄ / OVER PROP USR 95

Started: 4-8-58

Completed: 4-9-58 ✓ Equipment: 21-0-23

D.R Diameter 1.35

Ground Line 891.3 ✓ OVER

Depth Feet	Penetration	Elevation	Proposed Footer
0			
	3 5/16	887.3	
5	2 1/4	886.3	
	1 5/8		
	1 3/8		
	1 1/8	883.3	
	7/8	882.3	
10	3/4	881.3	
	3/4		
	5/8		
	9/16+		
	9/16		
15	9/16	876.3	
	5/8+		
	9/16		
	1/2+		
	1/2		
20	7/16	871.3	
	3/8		
	3/8		
	3/8		
	1/8		
25	7/16	866.3	
25		866.3	
	5/16	865.3	
	1/2+		
	9/16		
	9/16		
30	7/16	861.3	
	1/2+		
	1/2		
	9/16		
	5/8		
35	7/16	856.3	
	7/16		OVERNIGHT #-318
	9/16		
	7/16+		
	1/2+		
40	9/16	851.3	
	9/16		
	7/16		
	7/16		
	3/8		
45	3/8	846.3	
	3/8		
	3/8		
	7/16		
	5/16		
50	5/16	841.3	
	5/16		
	1/4		
	1/4		
	1/8		
55	0+	836.3 ✓	
60			

Rod Condition: Good ✓

Party Galentine McKenn

Chief of Party SaBo

FIELD DATA - ROD PENETRATION

Location No. #7 ✓ County: Montgomery

~~Abut.~~ Pier ~~Abut.~~ Bridge No. MOT-35

Station: 1050+97 ✓ ~~Over~~ Woodman Dr.

Offset: 57' Rt. ✓ OVER PROP US 35 S. Rt. 35

Started: 4-9-58

Completed: 4-11-58 ✓ Equipment: 21-3-29

D.R. Diameter 1.35

Ground Line ✓

OVER

Proposed Footer

Depth Feet	Penetration	Elevation	
		894.9	
0			
3.5	4	892.9	
4.4	3 3/4	891.9	
5			
6.1	2 1/4		
6.3	2 "		
8.0	1 3/8		
9.3	1 1/16		
10.5	15/16	886.9	
10			
11.5	11/16		
11.0	3/4		Overnight cured 7/8
10.5	7/8		
10.0	3/4		
13.0	11/16	881.9	
15			
12.0	5/8		
12.0	5/8		
14.0	5/8		
13.0	5/8		
13.0	1/2	877.9	
20			
21.0	1/2	875.9	✓
25		877.9	

Party Moreland Ballard

OK

25		
30		
35		
40		
45		
50		
55		
60		

Rod Condition: Good ✓

Chief of Party Sabo

FIELD DATA - ROD PENETRATION

Location No. #8 County: Mont.

Pier Bridge No. MOT-35-

Station: 1051+40 Owner: Woodward Dr.

Offset: 57' RT. OVER PROP USR 35

Started: 4-3-58

Completed: 4-8-58 Equipment: 21-0-23

DR Diameter 1.85

Elevation 896.3 Ground Line · OVER

Depth Feet	Penetration	Elevation	Proposed Footer
0			
	3 5/16	892.3	
5	2 5/8	891.3	
	1 5/16	890.3	
	15/16	889.3	
	9/16		
	7/16		
10	1/4	886.3	
	1/4+	885.3	
15.0	5/16+		
	1/4+		
	3/16+		
15	5/16+	881.3	Weekend Check - 3/16
16.0	1/4	880.3	
18.0	1/8		
	3/16		
	1/4		
20	1/4	87[illegible].3	
16.0	5/16		
	1/8+		OVERNIGHT CHK - 3/16
	1/8		
19.0 2.46	1/16	872.3	
25		[illegible]	

Party Galentine McKean

Depth Feet
25
30
35
40
45
50
55
60

Rod Condition: 20' ROD SLIGHTLY BENT

Chief of Party SABO

FIELD DATA - ROD PENETRATION

Location No. #9 County: Montgomery

Rev. ~~Bent~~ - Abut. Bridge No. #MOT-35-

Station: 1050+~~62.2~~65 ~~Comm.~~ Woodman Rd.

Offset: 90' Rt. OVER ~~RR OR~~ DSR 35

Started: 4-8-58

Completed: 4-8-58 Equipment: 21-D-29

Top of Pile 903.4 D.R. Diameter 1.35

Ground Line 900.4

Proposed Footer

Depth Feet	Penetration	Elevation
0		
	2 7/8	896.4
5	2"	895.4
	1 5/8	
	1 1/4	
	1 1/8	892.4
	3/4	891.4
10	1 1/4	890.4
	3/4	889.4
12.5	7/16	
	5/8	
	1/2	
15	1/2	885.4
15.5	7/16	
	5/16	
	5/16	
	1/8	
20	1/8+	880.4
17.0	3/16	
	1/8+	
	1/8	
20.0	0+	876.4
25		875.4

Party Meachard Balint

Depth Feet
25
30
35
40
45
50
55
60

Rod Condition: Good

Chief of Party Sabo

FIELD DATA - SOIL LOG

Location No. #8 **County:** Mot-35-19.34
Pier- **Bridge No.** MOT-35
Station: 1051+86.3 **Over:** Woodman Drive
Offset: 22.8' Rt R OVER PROP USR 35
Started: 4-8-58 **Equipment:** Cone Auger OVER
Completed: 4-10-58 **Diameter**
Proposed Footer:
Water Level:

Depth Feet	Log	Samples	Elevation	Ground Line
0			896.3	Ground Line
				Brown Sandy Silt Clay with Few Gravels
5			891.3	10/12" Brown Sandy Silt Clay with Gravels; 2/12" Sample Moist
10			886.3	5/12" Brown Clay Silt with Small; 7/12" Flat Fine Sand & Gravels; Sample Moist
15			881.3	10/12" Brown Clay Silt with Small; 2/12" Flat Fine Sand & Gravels; Sample Moist
18.0			878.3	Sand & Gravel with Small Boulders At 878.3
20			876.3	5/12" Brown Color Silty Sand & Gravel; 7/12" with Small Boulders; Wet Sample
25			871.3	7/12
26			870.3	10/12" Color Silty Sand & Gravel with Few Limestone Boulders
28.8				
30			866.3	2/12" Brown Color Clay Silt with; 10/12" Sand & Gravel; Wet Sample
35			861.3	3/12" Brown Color Silty Coarse Grain; 9/12" Sand & Small Gravel "Dry"; Indication of Boulders At 859.3
40			856.3	2/12" Brown Color Silty Coarse & Fine; 10/12" Sand with Gravel & Small Boulders
45			851.3	3/12" Brown Color Silty Sand & Gravel; 7/12" with Few Limestone Boulders "Small"
50			846.3	Did Not Use Sand Trap On Hole At Any Time.
				45' Casing Used - Cleaned Out To 50' Indication of Brown Sand & Gravel with Small To Medium Sized Boulders Casing Very Hard To Drive From 30' To 45' Also Pulled Hard
55				
60				

Brown Sandy Silt Clay
Brown Color Silty Sand & Gravel
Brown Clay Silt
Brown Sand & Gravel
Brown Color Silty Sand & Gravel with Small Boulders
Brown Clay Silt
Brown Sand & Gravel with Small Boulders
Brown Clay Silt
Brown Sand & Gravel with Small Boulders
Brown Color Silty Sand & Gravel with Few Limestone Boulders
Brown Clay Silt
Brown Sand & Gravel with Small Boulders
Brown Color Silty Sand & Gravel with Few Limestone Boulders
Brown Clay Silt
Brown Sand & Gravel with Few Limestone

SO-6

County, Rt. No., Section MoT-35 - 19.34

REAR PIER Bridge No. MoT-35-OVER DARMAN DR. OVER PROP. USR 35

TH 8 Sta. 1051+35 - 60' RT Surf Elev 896.3

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

Lab. No. Sec.-	Field No.	Station No.	Depth Feet	Mechanical Analysis: Agg. %	Gravel %	Sand %	Silt %	Clay %	Physical Characteristics: L.L.	P.I.	Water Cont.	Class Group.	Remarks
87668	1	1051+35 60RT	5'-6'	7	2	6	47	38	30	13	17	A-6 Br.	silt and clay
87669	2	" "	10'-11'	8	3	12	39	38	34	14	21	A-6 Br.	Sandy clay
87670	3		15'-16'	12	5	10	44	29	27	9	17	A-4 Br. a	sandy silt
87671	4		20'-21'	62	18	7	10	3	N	P	19	A-1 Br. a	silty sandy gravel GRAVEL
87672	5		25'-26'	82	10	3	4	1	N	P	12	A-1-a Br.	gravel GRAVEL
87673	6		30'-31'	42	19	14	18	12	18	5	11	A-2-4 Br.	silty sandy gravel GRAVEL
87674	7		35'-36'	19	38	23	14	6	N	P	7	A-1-b Br.	silty gravelly sand GRAVEL
87675	8		40'-41'	42	16	24	15	3	N	P	17	A-1-b Br.	silty sandy gravel GRAVEL
87676	9	" "	45'-46'	63	18	9	7	3	N	P	8	A-1-a Br.	silty sandy gravel GRAVEL

FIELD DATA - SOIL LOG

Location No. #5 County: Mont 35-19.34

CENTER ✓ Pier- Bridge No. MoT-35 -

Station: 1250+34 ✓ Over: Woodman Dr.

Offset: ℄ ✓ OVER PROP USR 35

Started: 4-3-58 Equipment: One Drill

Completed: 4-3-58 Diameter

Proposed Footer:

Water Level:

Depth Feet	Log	Samples	Elevation	Ground Line
0			899.3	✓ Brown Silty Clay Small Gravel
5		#1	884.3	8/10
				Brown Sandy Silt Small & Med Gravel, Contains Some Ore
10		#2	879.3	7/18
				Brown Silty Sand Small & Large Gravel
15		#3	874.3	1/3
				Sand Little Silt Small Gravel
20		#4	869.3	7/9
				Sandy Gravel Little Silt
25		#5	864.3	13/19
26			863.3	Fine Grain Sand
30		#6	861.3	19/34
				Gravel Small amt Limestone Boulders
35		#7	856.3	28/23
				Fine Silty Sand
40		#8	854.3	41/67
45				
50				
55				
60				

Remarks:

Party Rich Benson

Chief of Party E. Wickham

TH 5

*SO-6

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section MOT-35-19.34

Bridge No. MOT-35- DOWNMAN DR OVER PROP USR 35

*CENTER PIER

TH 5 Sta 1050+84 - 64 Surf Ele 891.3'

(2/3)

Lab. No. So.-	Field No.	Station No.	Depth Feet	Mechanical Analysis: Agg. %	Sand %	Sand %	Silt %	Clay %	Physical Characteristics: L.L.	P.I.	Water Cont.	Ohio Class.	Remarks
87154	1	1050+84 ℄	5'-6'	18	5	11	33	33	26	13	23	A-6a	SANDY GRAV. CLAY
87155	2	" "	10-11	9	4	11	45	31	26	11	16	A-6a	SANDY CLAY
87156	3	" "	15'-16	20	20	10	38	12	26	7	21	A-4b	GRAV. SANDY SILT
87157	4	" "	20'-21'	38	21	18	19	4	N	P	18	A-1-b	SILTY GRAVELLY SAND
87158	5	" "	25-26	43	21	15	16	5	N	P	10	A-1-b	SILTY SANDY GRAVEL
87159	6	" "	30'-31'	11	6	30	43	10	N	P	14	A-4a	SANDY SILT
87160	7	" "	35'-36'	41	21	13	21	4	N	P	7	A-1-b	SILTY SANDY GRAVEL
87161	8	" "	40-41	0	15	48	34	3	N	P	14	A-4a	SILTY SAND

TH 5

FIELD DATA - SOIL LOG

Location No. 4 ✓ **County:** Mont-35

Ewe ✓ **Pier - Abut.** ✓ **Bridge No.** MOT-35-

Station: 1051+08.4 ✓ **Over:** Woodman Dr. over Prop UBR 35.

Offset: 47.7 Lt ✓

Started: 4-7-58 **Equipment:** Core Drill

Completed: 4-8-58 **Diameter** _____

Proposed Footer: _____

Water Level: _____

MOT-35-19.34

OVER.

Depth Feet	Log	Samples	Elevation	Ground Line
0			887.0 ✓	Ground Line
	Brn Silt Clay Sm. to Lg. Gravel			Brn Silt Clay, Sm. to Lg. Gravel
5			882.0	
		1		6/10 = 12" Pen - Brn. Silt Clay - Sm. to Lg. Gravel
10			877.0	
		2		6/10 = 12" Pen - Brn Silt Clay - Sm. to Lg. Gravel
				Layers of Sand & Gravel
15	Brn Silt, Sand Gravel Some Boulders		872.0	Silt
		3		30/46 = " " " " "
20			867.0	
		4		9/22 = Brn Silt, Sand & Gravel Few Boulders
25			862.0	
		5		Wash Sample - taken due to upheaval in casing.

Brn Water

Brn. Water

Depth Feet	Log	Samples	Elevation	Ground Line
26	Brn Silt Gravel & Boulders		862.0	Sand
				Brn Silt, Gravel & Boulders
30			857.0	
		6		13/22 = (boulder in End of Sampler (2 tries)
35			852.0	
	Brn. Calc. Silt Clay Sand, Gravel & Boulders	7		39/56 = Brn. Calcareous Silt Clay, Sand, Gravel & Boulders
40			847.0	
		8		32/49 = Brn. Calc. Silt Clay Sand, Gravel & Boulders
45			842.0	XXXXXXX
50				
55				
60				

Remarks: Drilled ahead of casing after 35' wash sample taken at 25', 40' casing

Party Rich Horn

Chief of Party C. Wilg

TH 4

SO-6

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section MOT-35-19.34

Bridge No. Mot-35- ~~over~~ Woodman Rd. OVER ~~PROP~~ USR-35

FWD PIER

TH 4 Sta. 1051+84 -48'LT Surf El = 887.0'

1/3

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Characteristics L.L.	P.I.	Water Cont.	Ohio Class.	Remarks
87660	1	1051+84 47.7Lt	5'-6'	8	2	6	46	38	31	13	18	A-6a Br	silt & clay
87661	2	" "	10'-11'	9	5	10	40	36	29	12	22	A-6a Br	sandy clay
87662	3	" "	15'-16'	39	6	33	19	3	N	P	19	A-2-4 Br	silty gravelly sand
87663	4	" "	20'-21'	52	35	10	10	3	N	P	11	A-1-a Br	silty sandy gravel
87664	5	" "	25'-26'	50	29	7	12	2	N	P	16	A-1-a Br	silty sandy gravel
87665	6	" "	30'-31'	90	5	1	3	1	N	P	5	A-1-a Br	gravel
87666	7	" "	35'-36'	64	11	10	13	2	N	P	12	A-1-a Br	silty sandy gravel
87667	8	" "	40'-41'	63	13	7	13	4	N	P	8	A-1-b Br	silty sandy gravel

1.H.4

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. MONTGOMERY
MOT-35-19.34, GRE-35-0.00
MOT-35-
WOODMAN DR. OVER PROP. USR 35
SHEET NO. 1 OF 2 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS: % AGGREGATE RET. # 10	% COARSE SAND 2.0MM - 0.42MM	% FINE SAND 0.42MM - 0.074MM	% SILT 0.074MM-0.005MM	% CLAY <0.005MM	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	DESCRIPTION
										LOGS OF WILLIAMS AUGER BORINGS
	STA 21+65	8'LT.,	Surf.	El.	889.0					Depth
	(Woodman Dr.)									0.0-0.8 SOD & TOPSOIL
48	87380	0	6	17	34	43	39	20	11	0.8-4.0 BROWN SANDY CLAY
49	87381	12	10	18	41	19	20	4	15	4.0-10.0 BROWN SANDY SILT
50	87382	5	4	8	47	36	26	11	15	10.0-14.0 BROWN SILT & CLAY
51	87383	9	4	9	47	31	25	11	11	14.0-18.0 GRAY SANDY CLAY
52	87384	15	6	11	42	26	24	8	15	18.0-20.0 BROWN SANDY SILT
	STA 1050+00	CL,	Surf.	El.	891.9					
										0.0-0.8 SOD & TOPSOIL
53	87385	0	1	30	29	40	47	24	26	0.8-4.0 BROWN SANDY CLAY
54	87386	6	7	42	27	18	23	7	21	4.0-7.0 BROWN SANDY SILT
55	87387	17	11	26	30	16	18	5	10	7.0-10.0 BR.GRAVELLY SANDY SILT
	STA 1050+90	CL,	Surf.	El.	891.9					
										0.0-0.8 SOD & TOPSOIL
59	87391	10	4	10	33	43	45	24	20	0.8-2.0 BROWN SANDY CLAY
60	87392	7	2	6	50	35	30	14	13	2.0-10.0 BROWN SILT & CLAY
61	87393	3	3	6	50	38	29	13	16	10.0-15.0 BR.& GR.SILT & CLAY
62	87394	7	4	9	48	32	25	11	14	15.0-20.0 GRAY SILT & CLAY
	STA 20+00,	CL,	Surf.	El.	890.5					
	(Woodman Dr.)									0.0-0.8 SOD & TOPSOIL
1B	86669	9	6	12	51	22	25	8	20	0.8-5.0 BROWN SANDY SILT
2B	86670	19	10	21	33	17	20	5	15	5.0-8.0 BR.GRAVELLY SANDY SILT
3B	86671	15	8	18	40	19	18	5	11	8.0-10.0 GR.GRAVELLY SANDY SILT
										RC

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STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. MONTGOMERY
MOT-35-19.34 GRE-35-0.00
MOT-35-
WOODMAN DR OVER PROP. USR 35
SHEET NO. 2 OF 21 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS							WATER CONTENT	DESCRIPTION
		% AGGREGATE RET. # 10	% COARSE SAND 2.0MM - 0.42MM	% FINE SAND 0.42MM - 0.074MM	% SILT 0.074MM - 0.005MM	% CLAY <0.005MM	LIQUID LIMIT	PLASTICITY INDEX		
										DRIVE SAMPLES
1	87154	18	5	11	33	33	36	13	23	BR.SANDY GRAVELLY CLAY
2	87155	9	4	11	45	31	26	11	16	BROWN SANDY CLAY
3	87156	20	20	10	38	12	26	7	21	BR.GRAVELLY SANDY SILT
4	87157	38	21	18	19	4	NP	NP	18	BR.SILTY GRAVELLY SAND
5	87158	43	21	15	16	5	NP	NP	10	BR.SILTY SANDY GRAVEL
6	87159	11	6	30	43	10	NP	NP	14	SANDY SILT
7	87160	41	21	13	21	4	NP	NP	7	SILTY SANDY GRAVEL
8	87161	0	15	48	34	3	NP	NP	14	SILTY SAND
1	87660	8	2	6	46	38	31	13	18	BROWN SILT & CLAY
2	87661	9	5	10	40	36	29	12	22	BROWN SANDY CLAY
3	87662	39	6	33	19	3	NP	NP	19	BR.SILTY GRAVELLY SAND
4	87663	52	25	10	10	3	NP	NP	11	BR.SILTY SANDY GRAVEL
5	87664	50	29	7	12	2	NP	NP	16	BR.SILTY SANDY GRAVEL
6	87665	90	5	1	3	1	NP	NP	5	BROWN GRAVEL
7	87666	64	11	10	13	2	NP	NP	12	BR.SILTY SANDY GRAVEL
8	87667	63	13	7	13	4	NP	NP	8	BR.SILTY SANDY GRAVEL
1	87668	7	2	6	47	38	30	13	17	BROWN SILT & CLAY
2	87669	8	3	12	39	38	34	14	21	BROWN SANDY CLAY
3	87670	12	5	10	44	29	27	9	17	BROWN SANDY SILT
4	87671	62	18	7	10	3	NP	NP	19	BR.SILTY SANDY GRAVEL
5	87672	82	10	3	4	1	NP	NP	12	BROWN GRAVEL
6	87673	42	14	14	18	12	18	5	11	BR.SILTY SANDY GRAVEL
7	87674	19	38	23	14	6	NP	NP	7	BR.SILTY GRAVELLY SAND
8	87675	42	16	24	15	3	NP	NP	17	BR.SILTY SANDY GRAVEL
9	87676	63	18	9	7	3	NP	NP	8	BR.SILTY SANDY GRAVEL
1	88339	19	8	14	35	24	26	11	25	BROWN GRAVELLY SANDY CLAY
2	88340	5	4	7	42	42	31	14	17	BROWN SILT & CLAY
3	88341	23	13	15	29	20	23	9	12	BR.& GR. GRAVELLY SANDY SILT
4	88342	0	3	6	24	35	[illegible]	[illegible]	[illegible]	[illegible]

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. MONTGOMERY
MOT-35-19.34 GRE-35-0.00
MOT-35-
WOODMAN DR. OVER PROP. USR 35
SHEET NO. 3 OF 21 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS: % AGGREGATE RET. #10	% COARSE SAND 2.0MM-0.42MM	% FINE SAND 0.42MM-0.074MM	% SILT 0.074MM-0.005MM	% CLAY <0.005MM	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	DESCRIPTION
										DRIVE SAMPLES
5	88343	15	34	31	14	6	NP	NP	12	BROWN SILTY GRAVELLY SAND
6	88344	19	9	15	30	27	22	10	9	GRAY GRAVELLY SANDY SILT
7	88345	35	12	12	22	19	22	9	15	GRAY SANDY GRAVELLY SILT
8	88346	0	1	13	42	44	25	11	18	GRAY SILT & CLAY
9	88347	0	1	3	29	67	37	19	24	GRAY SILTY CLAY
										LOGS OF WILLIAMS AUGER BORINGS
	STA 17+50,	CL, Surf. El. 905.5								Depth
	(Woodman Dr.)									0.0-0.6 SLAG
63	87395	14	7	13	39	27	25	8	14	0.6-4.0 BROWN SANDY SILT
										REFUSAL-LIMESTONE BOULDERS
	STA 17+20	25' LT., Surf. El. 907.1								
	(Woodman Dr.)									0.0-0.3 SOD
4B	86672	11	4	9	44	32	37	16	23	0.3-4.0 BR. SANDY SILTY CLAY
5B	86673	28	9	14	27	22	25	9	11	4.0-8.0 BR. SANDY GRAVELLY SILT
6B	86674	22	11	16	36	15	23	9	13	8.0-12.0 BR. GRAVELLY SANDY SILT
7B	86675	36	23	27	10	4	NP	NP	17	12.0-15.0 BR. SILTY GRAVELLY SAND
										LOG OF WILLIAMS AUGER BORING
	STA 1050+00	150' LT., Surf. El. 893.9								Depth
										0.0-0.8 SOD & TOPSOIL
45	87377	19	8	13	33	27	28	11	17	0.8-3.0 BR. GRAVELLY SANDY CLAY
46	87378	22	16	19	29	14	20	7	11	3.0-9.0 BR. GRAVELLY SANDY SILT
47	87379	5	3	7	51	34	25	8	13	9.0-10.0 GRAY SILT

RC

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
WOODMAN DR. OVER PROP. USR 35

LOCATION: T.H. 3 STA. 21+87 OFFSET 31' RT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
886.0	0			
	2			
	4			
881.0	6	4/14	88339	Brown Gravelly Sandy Clay
	8			
876.0	10	14/25	88340	Brown Silt & Clay
	12			
	14			
871.0	16	22/38	88341	Brown & Gray Gravelly Sandy Silt
	18			
866.0	20	8/26	88342	Gray Silt
	22			
	24			
861.0	26	14/31	88343	Brown Silty Gravelly Sand
	28			
856.0	30	25/47	88344	Gray Gravelly Sandy Silt
	32			
	34			
851.0	36	15/35	88345	Gray Sandy Gravelly Silt

RC

LOG OF BORING (CONTINUED)

BRIDGE NO. MOT-35- T.H.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
846.0	40	43/44	88346	Gray Silt & Clay
	42			
	44			
841.0	46	12/14	88347	Gray Silty Clay
	48			
836.0	50	-----	----	Boulders
	52			
	54			
831.0		-----	----	Boulders
	56			BOTTOM OF BORING
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR OVER PROP. USR 35
LOCATION: T.H. 4 STA. 1051+08 OFFSET 48' LT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
887.0	0			
	2			
	4			
883.0	6	6/10	87660	Brown Silt & Clay
	8			
877.0	10			
	12	6/10	87661	Brown Sandy Clay
	14			
872.0	16	30/46	87662	Brown Silty Gravelly Sand
	18			
867.0	20			
	22	9/22	87663	Brown Silty Sandy Gravel
	24			
862.0	26	----	87664	Brown Silty Sandy Gravel
	28			
857.0	30			
	32	13/22	87665	Brown Gravel
	34			
852.0	36	39/56	87666	Brown Silty Sandy Gravel

RC

LOG OF BORING (CONTINUED)

BRIDGE NO. MOT-35 T.H. 4

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
847.0	40	32/49	87667	Brown Silty Sandy Gravel
	42			
	44			
842.0		----	------	
	46			BOTTOM OF BORING
	48			
	50			
	52			
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
CENTER PIER WOODMAN DR OVER PROP.USR 35

LOCATION: T.H. 5 STA. 1050+34 OFFSET CL FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
891.3	0			
	2			
	4			
886.3	6	8/10	87154	Brown Sandy Gravelly Clay
	8			
881.3	10			
	12	11/18	87155	Brown Sandy Clay
	14			
876.3	16	1/3	87156	Brown Gravelly Sandy Silt
	18			
871.3	20			
	22	7/9	87157	Brown Silty Gravelly Sand
	24			
866.3	26	13/19	87158	Brown Silty Sandy Gravel
	28			
861.3	30			
	32	19/34	87159	Sandy Silt
	34			
856.3	36	28/83	87160	Silty Sandy Gravel

RC

LOG OF BORING (CONTINUED)

BRIDGE NO. MOT-35- T.H. 5

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
851.3	40			
850.3		41/67	87161	Silty Sand
	42			BOTTOM OF BORING
	44			
	46			
	48			
	50			
	52			
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

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STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. _____
REAR PIER WOODMAN DR OVER PROP. USR 35

LOCATION: T.H. 8 STA. 1051+35 OFFSET 60' RT. FED. NO. _____

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
896.3	0			
	2			
	4			
891.3	6	7/20	87668	Brown Silt & Clay
	8			
886.3	10	5/11	87669	Brown Sandy Clay
	12			
	14			
881.3	16	10/30	87670	Brown Sandy Silt
	18			
876.3	20	15/40	87671	Brown Silty Sandy Gravel
	22			
	24			
871.3	26	14/29	87672	Brown Gravel
	28			
866.3	30	25/90	87673	Brown Silty Sandy Gravel
	32			
	34			
861.3	36	39/78	87674	Brown Silty Gravelly Sand

RC

LOG OF BORING (CONTINUED)

SHEET 11

BRIDGE NO. MOT-35- T.H. 8

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
856.3	40	21/43	87675	Brown Silty Sandy Gravel
	42			
	44			
851.3	46	25/63	87676	Brown Silty Sandy Gravel
	48			
846.3	50	----	-----	Brown Sand & Gravel with Boulders
				BOTTOM OF BORING
	52			
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD ABUTMENT WOODMAN DR OVER PROP. USR 35

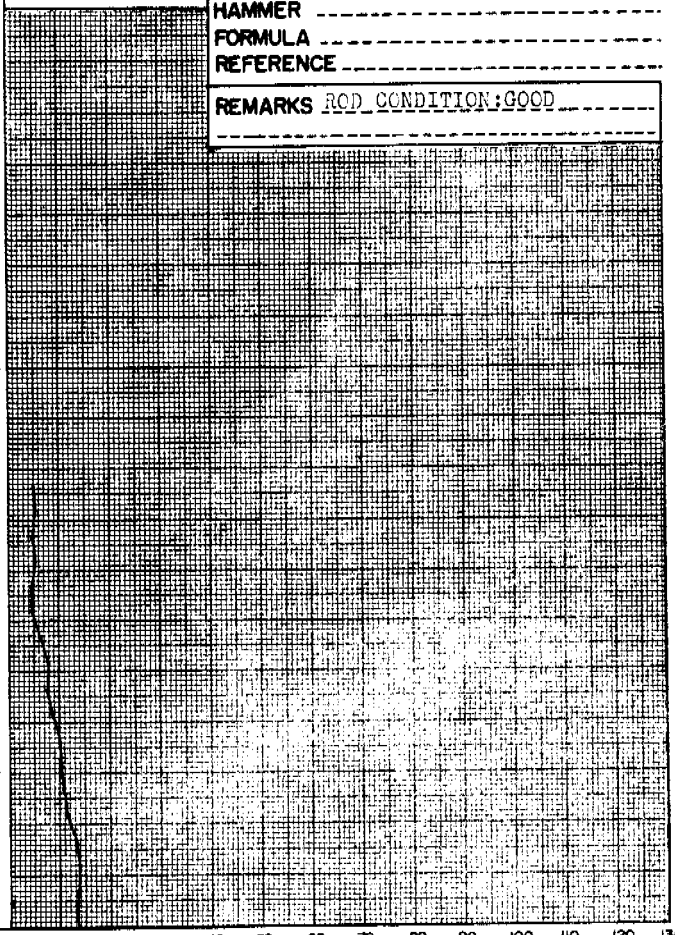
LOCATION TH. 1 STA. 1050+06 OFFSET 99' LT. FED. NO.

GND. EL. 889.9
WATER ELEV. DATE 4-8-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD

ELEV.	DEPTH
904.6	0
	2
900.6	4
	6
896.6	8
	10
892.6	12
	14
888.6	16
	18
884.6	20
	22
880.6	24
	26
876.6	28
	30
872.6	32
	34
868.6	36

SOIL LOG



CAPACITY "R" IN THOUSANDS OF POUNDS

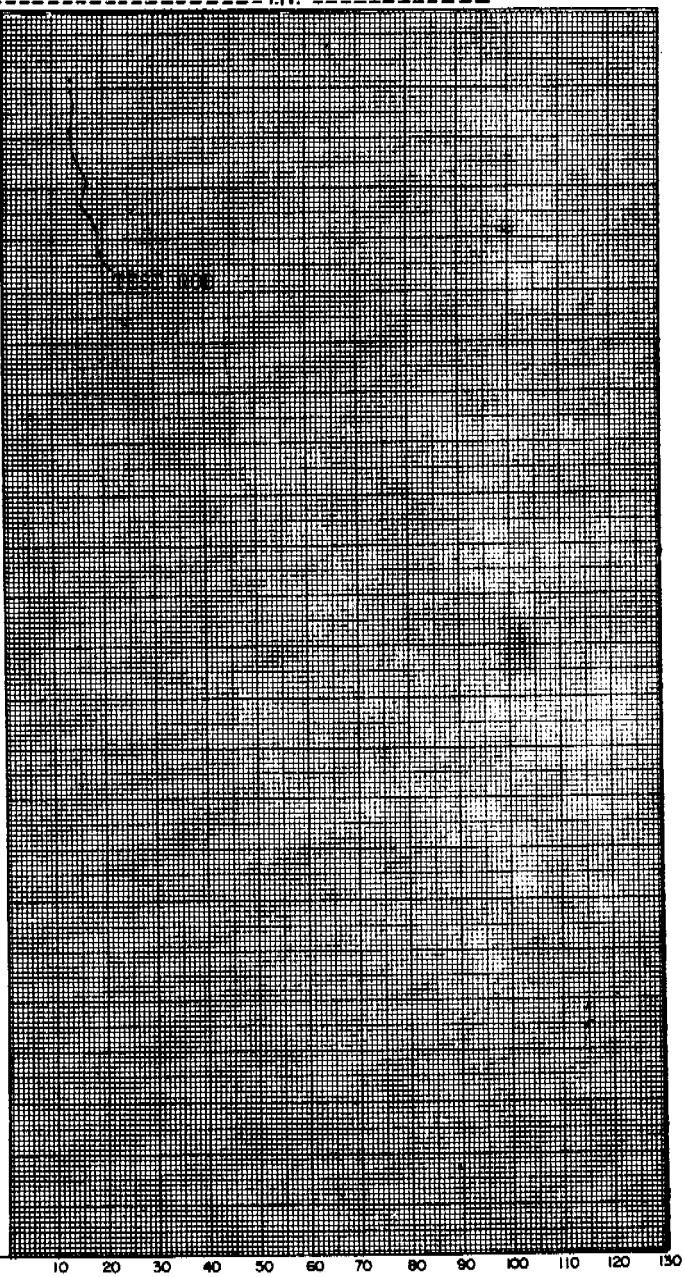
BY LNL
DATE

FOUNDATION DATA (CONTINUED)

SHEET 13

BRIDGE NO. MOT-35 T.H. 1

ELEV.	DEPTH	SOIL LOG
866.6		
	38	
864.6	40	
	42	
860.6	44	
	46	
	48	
	50	
	52	
	54	
	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



CAPACITY "R" IN THOUSANDS OF POUNDS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

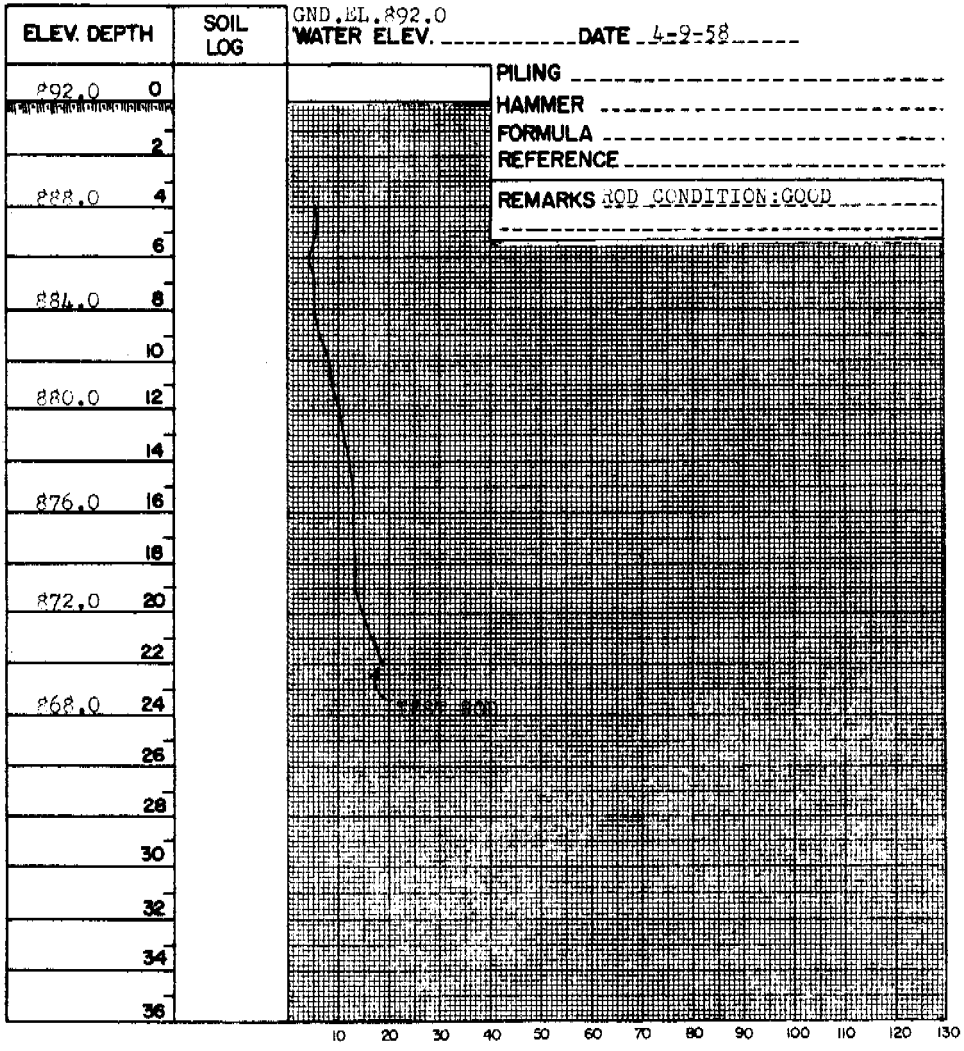
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR OVER PROP. USR 35

LOCATION T.H. 3-A STA. 1050+30 OFFSET 45' LT. FED. NO.

GND. EL. 892.0
WATER ELEV. DATE 4-9-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

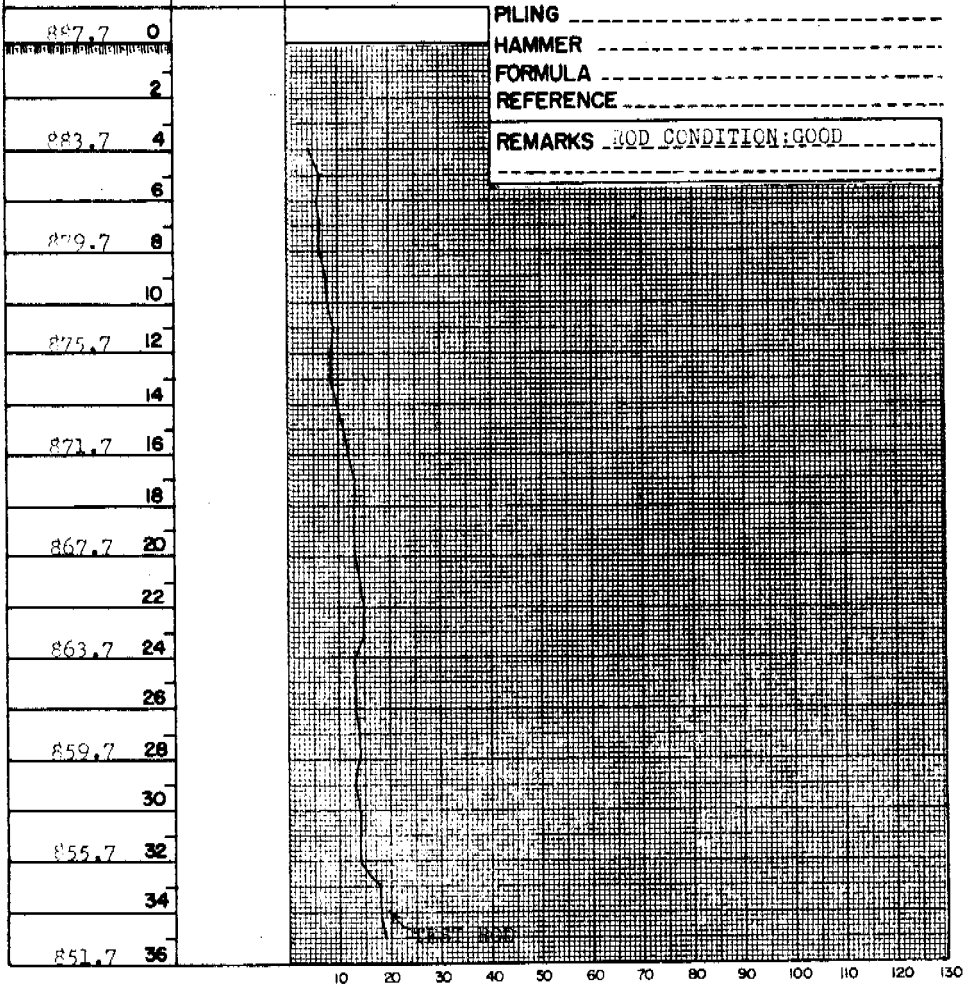
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR OVER PROP. USR 35

LOCATION TH. 4 STA. 1051+08 OFFSET 57' LT. FED. NO.

GND. EL. 887.7
WATER ELEV. DATE 4-8-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.M.L.
DATE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

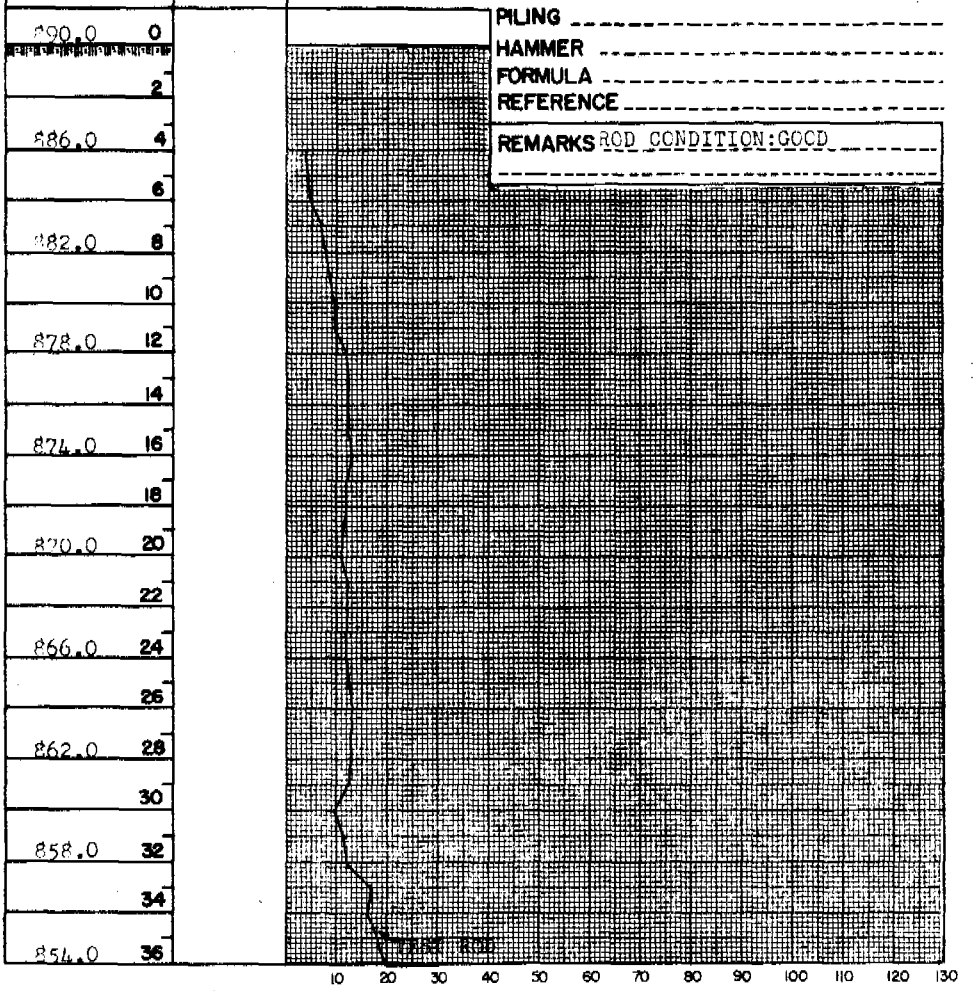
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR OVER PROP. USR 35

LOCATION TH. 4-A STA. 1051+35 OFFSET 45' LT. FED. NO.

GND.EL. 890.0
WATER ELEV. DATE 4-9-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION:GOOD



BY L.N.L.
DATE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
CENTER PIER WOODMAN DR OVER PROP. USR 35

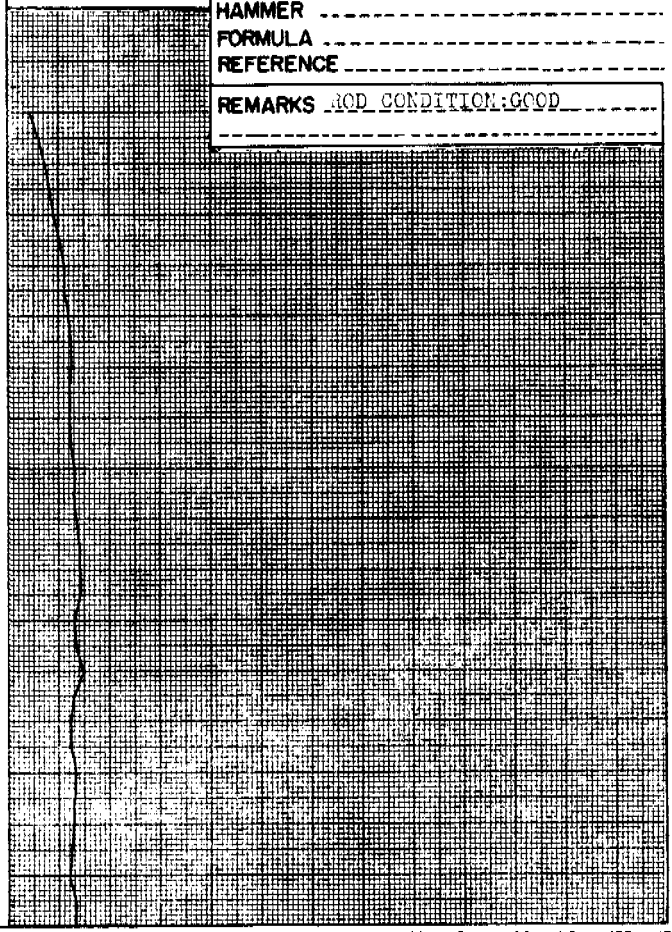
LOCATION T.H. 5 STA. 1050+35 OFFSET CL FED. NO.

GND. EL. 891.3
WATER ELEV. DATE 4-9-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION:GOOD

ELEV.	DEPTH
891.3	0
	2
887.3	4
	6
883.3	8
	10
879.3	12
	14
875.3	16
	18
871.3	20
	22
867.3	24
	26
863.3	28
	30
859.3	32
	34
855.3	36

SOIL LOG



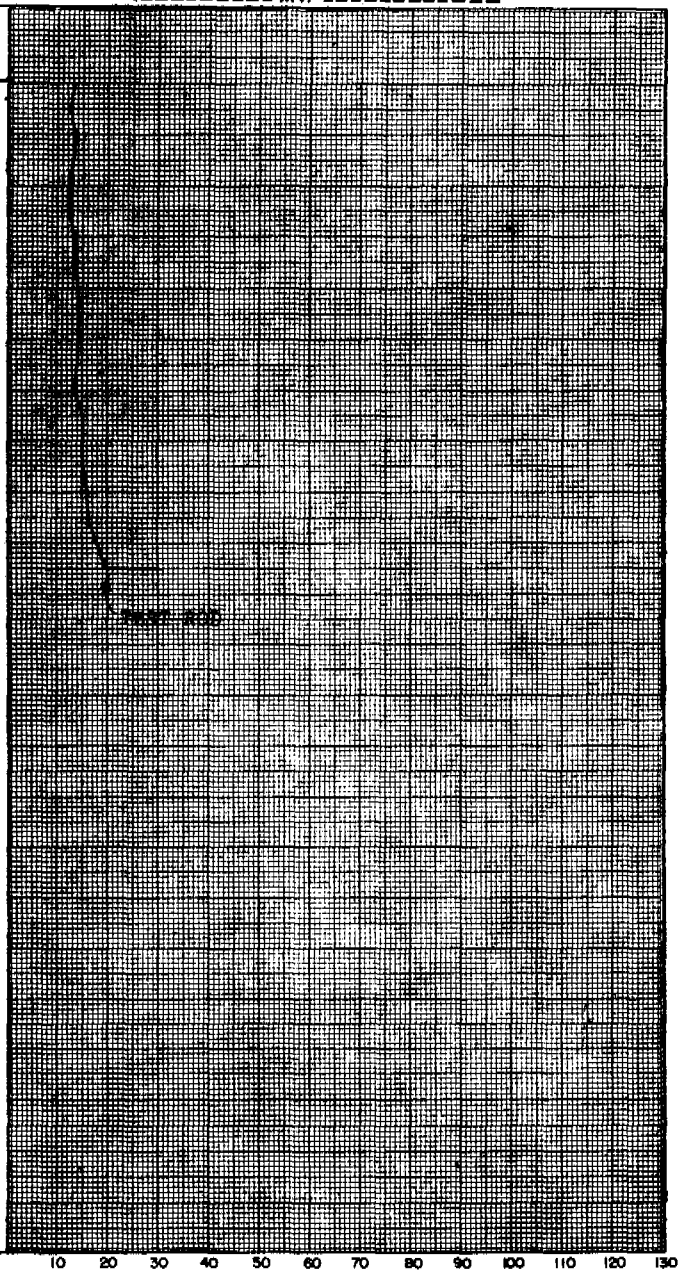
CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE

FOUNDATION DATA (CONTINUED) SHEET 18

BRIDGE NO. MOT-35- T.H. 5

ELEV.	DEPTH	SOIL LOG
855.3		
	38	
851.3	40	
	42	
847.3	44	
	46	
843.3	48	
	50	
839.3	52	
	54	
835.3	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

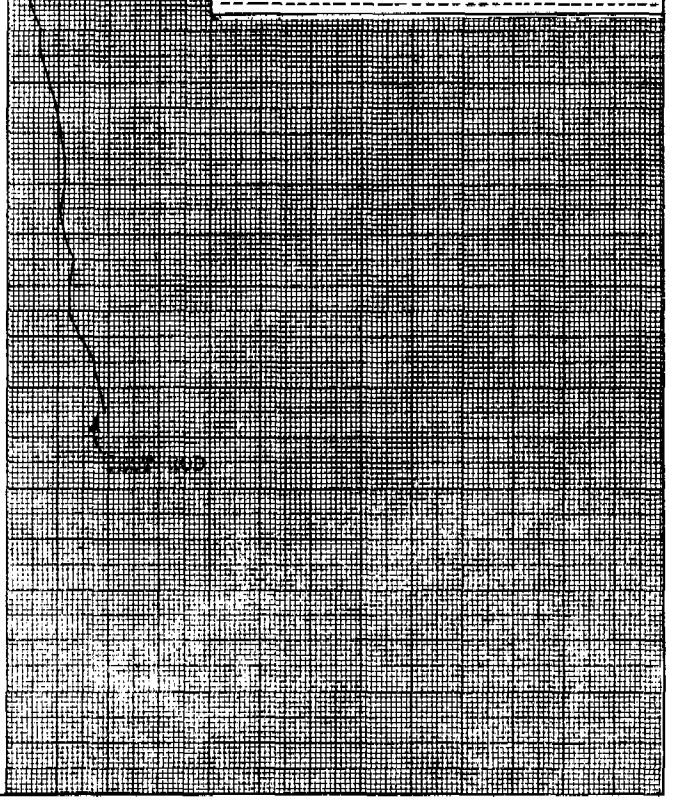
CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR PIER WOODMAN DR. OVER PROP. USR 35

LOCATION T.H. 7 STA. 1050+97 OFFSET 57' RT. FED. NO.

GND. EL. 896.9
WATER ELEV. DATE 4-11-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS BOD CONDITION: GOOD

ELEV.	DEPTH	SOIL LOG
896.9	0	
	2	
892.9	4	
	6	
888.9	8	
	10	
884.9	12	
	14	
880.9	16	
	18	
876.9	20	
	22	
872.9	24	
	26	
	28	
	30	
	32	
	34	
	36	



10 20 30 40 50 60 70 80 90 100 110 120 130

CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

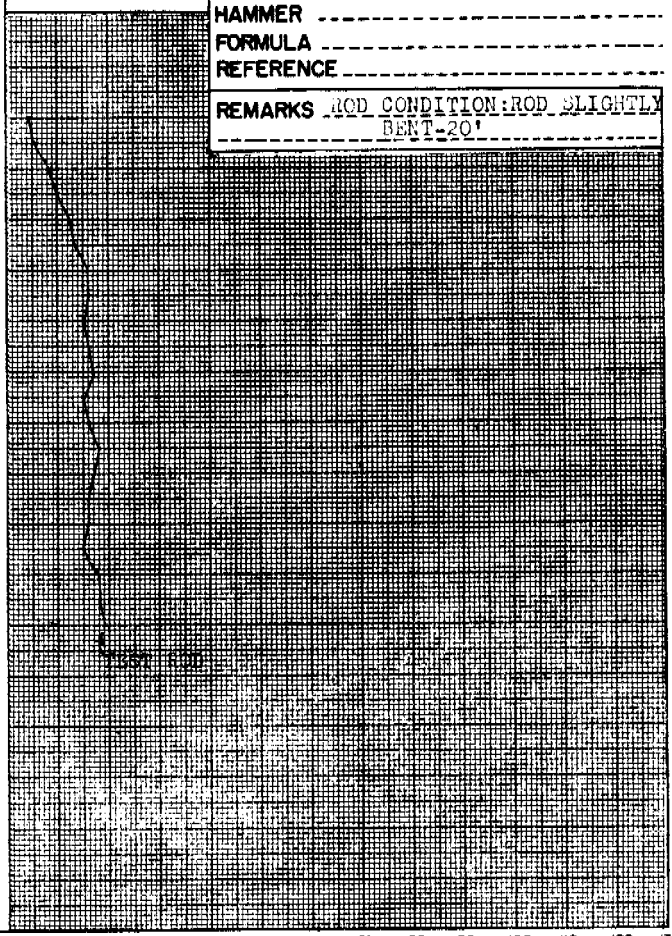
CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR PIER WOODMAN DR OVER PROP. USR 35

LOCATION T.H. 8 STA. 1051+40 OFFSET 57' RT. FED. NO.

GND. EL. 896.3
WATER ELEV. DATE 4-8-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: ROD SLIGHTLY BENT-20'

ELEV.	DEPTH	SOIL LOG
896.3	0	
	2	
892.3	4	
	6	
888.3	8	
	10	
884.3	12	
	14	
880.3	16	
	18	
876.3	20	
	22	
872.3	24	
	26	
	28	
	30	
	32	
	34	
	36	



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

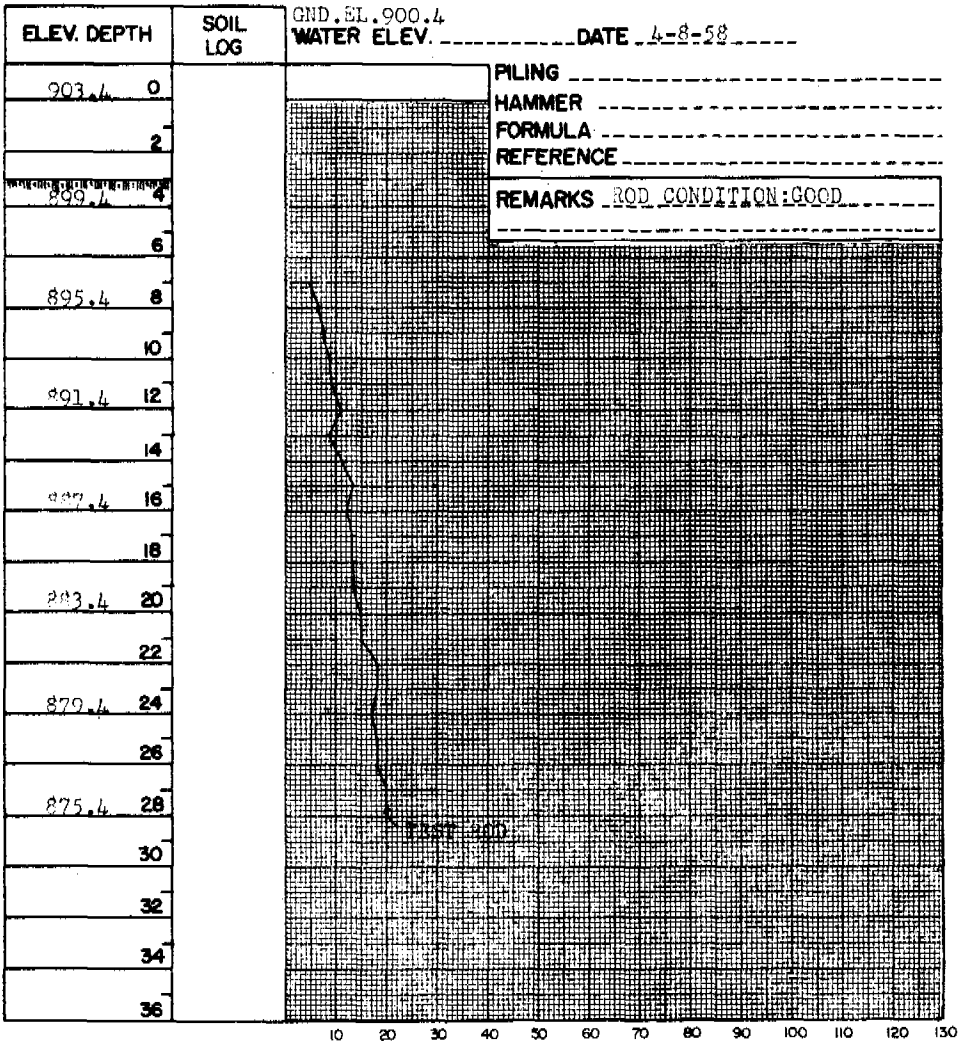
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR ABUTMENT WOODMAN DR OVER PROP. USR 35

LOCATION T.H. 9 STA. 1050+65 OFFSET 90' RT. FED. NO.

GND. EL. 900.4
WATER ELEV. DATE 4-8-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE

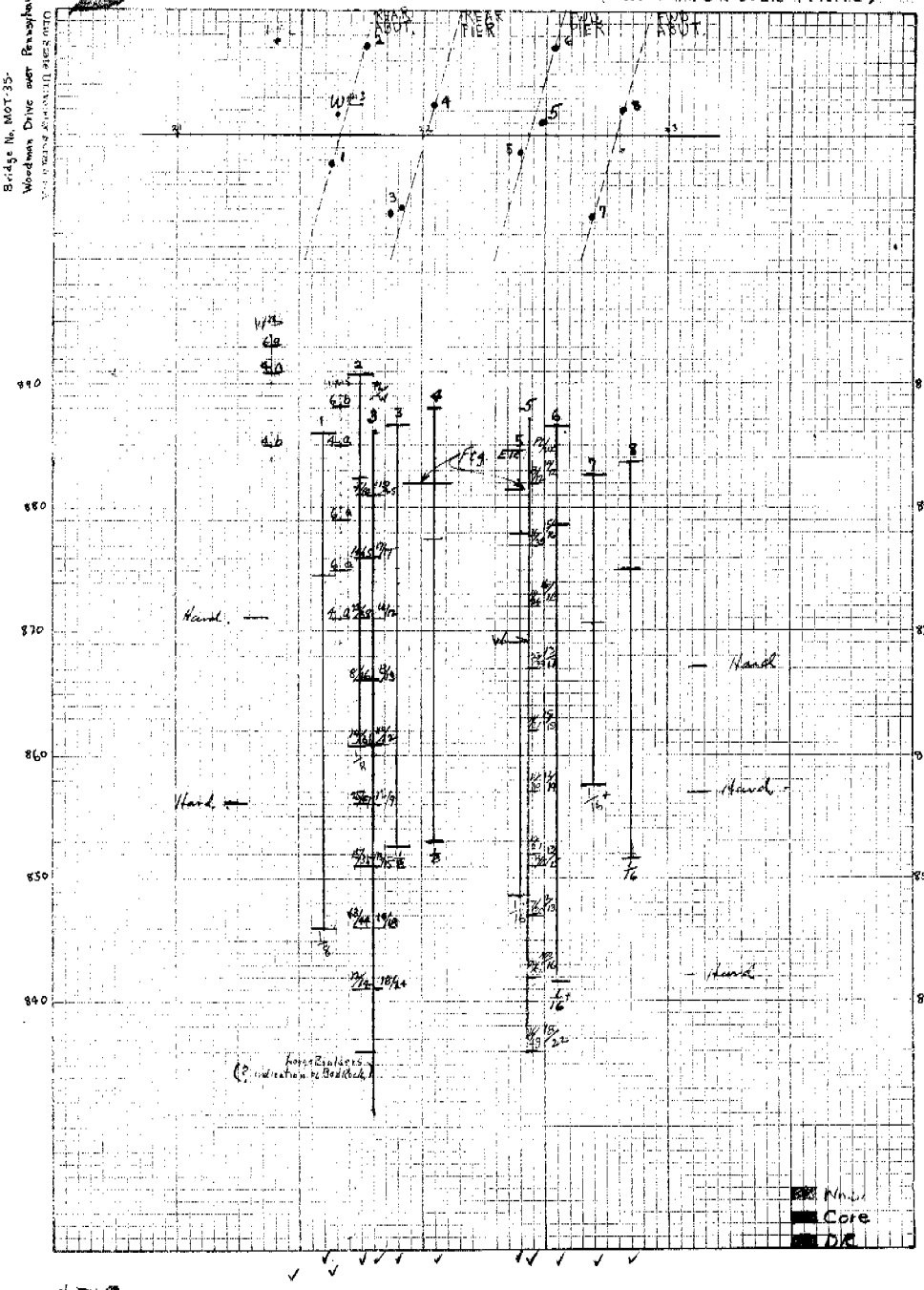
MOT-35-19.34 MOT-35-

WOODMAN DR OVER P.R.R.,

MONTGOMERY COUNTY

Bridge No. MOT-35-

Woodman Drive over Pennsylvania R.R.



All are dry except THIS.

Form 1.9 or 2

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

INTER-OFFICE COMMUNICATION

County of ..... Div. .....

S. H. ..... Sec. .....

Date May 9, 1958

To Mr. Henry Overman, Engineer of Bridges Attention: C. H. Altvater

From R. R. Litehiser, Engineer of Tests Per: N. E. Mason

Subject Report of Bridge Foundation Investigation File: 13-4-1
MOT-35-Woodman Dr. Over Prop. USR 35 Montgomery

Transmitted herewith are the results of the foundation investigation made at the above structure site as well as the logs of seven soil profile auger borings made in this vicinity. The exploration consisted of eight drive rod penetration tests and three drive sample borings made between April 3 and 16, 1958. A drive sample boring log for test location 3 on the Woodman Drive over the Penna. R. R. structure, just north of this structure, is also enclosed as supplemental reference data.

This site is on a portion of dissected till plain overlying glacial outwash. Bedrock consists of dense calcareous shale with thin limestone interbeds.

Borings disclose glacial deposits composed of dense gravelly sandy silts and clays overlying silty clay containing large boulders. Rod sounding terminated at various elevations because of high penetration resistance in dense drift, between elevation 836 and 876 feet. Borings were terminated between elevation 831 and 850 feet because of high penetration resistance. No test penetrated to bedrock.

R. R. Litehiser
Engineer of Tests

Per: _____
N. E. Mason
Assistant Engineer

NEM:DJR:bjm
Encl.
cc: Erdman Anthony and Hosley (No encl.)
G. D. Ackerman Attn: E. B. Stokes (No encl.)
N. E. Mason (3)

TESTING LAB

March 13, 1958

R. R. Litehiser, Engineer of Tests

N. E. Mason, Foundation Exploration Section

D. M. Overman, Engineer of Bridges

Raymond A. Grover, Foundation Engr.

Div. 08

County Montgomery
Greene

Sta. [illegible]-35-19.34
[illegible]-35-0.00

REQUEST FOR INVESTIGATION OF ABOVE FOUNDATION CONDITIONS

The Foundation Exploration Section of the Testing Laboratory is hereby requested to make test borings and soundings to determine the subsoil conditions existing at the above structure site. The data thus obtained is to be forwarded to this office for use in the structural design.

The recommended locations for the proposed tests have been shown by station and offset on one copy of the four attached prints of the site plan.

Request for location and elevation stakes be sent to:

Edman, Anthony, & Mosley
22 S. Young Street
Columbus 15, Ohio

Raymond A. Grover

RAG:rm
Enc - 4 Site Plans
cc: Dorothy Ray
C. H. Altvater
B. F. I. File

PAUL B. ERDMAN
EDWIN L. ANTHONY
JOHN E. HOSLEY, JR
ALBERT A. MASTRIANI

ERDMAN, ANTHONY & HOSLEY
CONSULTING ENGINEERS
22 SO. YOUNG STREET
COLUMBUS 15 OHIO
CAPITOL 4-5637

SURVEY
DESIGN AND SUPERVISION
OF CONSTRUCTION
OF
BRIDGES
HIGHWAYS
SPECIAL STRUCTURES
INDUSTRIAL PLANTS
HYDRAULIC PROJECTS
FOUNDATIONS AND BUILDINGS
PARKING GARAGES
AIRPORT FACILITIES
EXPRESSWAYS
INVESTIGATIONS & REPORTS
MANAGEMENT

March 4, 1958

to H. Marshall
3/5/58

File: 13-B-1
Montgomery
Greene

Mr. R.E. Shultz
Engineer of Location & Design
Ohio State Department of Highways
65 South Front Street
Columbus 15, Ohio

Re: MOT-35-19.34
GRE-35-0.00

Attention: O.W. Gruebmeyer

Dear Mr. Gruebmeyer:

We are delivering this date two (2) sets of prints of the referenced projects for use by the Department of Highways in securing the soils profile.

Each set includes plan and profile sheets of the main alignment, typical roadway sections for the main alignment, and other plans showing reroutings and temporary connections. All plans are in the preliminary stage of design of course.

Barring unforseen developments we expect our survey party to stake out all lines in the field on Thursday and Friday of this week in sufficient detail for the securing of the soils information.

Please advise if further information is desired at this time.

Very truly yours,

ERDMAN, ANTHONY & HOSLEY

A.A. Mastriani

AAM:se

May 9, 1958

Mr. Henry Overman, Engineer of Bridges — C. H. Altvater

R. R. Litehiser, Engineer of Tests — Per: N. E. Mason

Report of Bridge Foundation Investigation — File: 13-4-1
MOT-35-Woodman Dr. Over Prop. US# 35 — Montgomery

Transmitted herewith are the results of the foundation investigation made at the above structure site as well as the logs of seven soil profile auger borings made in this vicinity. The exploration consisted of eight drive rod penetration tests and three drive sample borings made between April 3 and 16, 1958. A drive sample boring log for test location 3 on the Woodman Drive over the Penna. R. R. structure, just north of this structure, is also enclosed as supplemental reference data.

This site is on a portion of dissected till plain overlying glacial outwash. Bedrock consists of dense calcareous shale with thin limestone interbeds.

Borings disclose glacial deposits composed of dense gravelly sandy silts and clays overlying silty clay containing large boulders. Rod soundings terminated at various elevations because of high penetration resistance in dense drift, between elevation 836 and 876 feet. Borings were terminated between elevation 831 and 850 feet because of high penetration resistance. No test penetrated to bedrock.

R. R. Litehiser
Engineer of Tests

Per: NEM
N. E. Mason
Assistant Engineer

NEM:DJR:bjm
Encl.
cc: Erdman Anthony and Rosley (No encl.)
G. D. Ackerman Attn: E. B. Stokes (No encl.)
N. E. Mason (3)

Woodman Dr. over U.S. #35
Water Elevs

1 - 5' to water	- Hole -	Closed	15'
4 No-water	"	"	10'
5 No - water	"	"	16'
8 No - water	"	"	14'
9 No - water	"	"	19'
4-A - No water	"	"	16'
5-A - No - water	"	"	19'
7 - No - water	"	"	16'

Water Elev

1958	Job. No.	08277
Year	Changes	

File No. FES-24 14C-020/46-30

006564

County: MONTGOMERY
Bridge No.: MAT-35-
Section: MAT-GRE-35 (19.34)(0.00)
☐ over ☐ under
Location: Woodman Drive over Penn RR

DESIGN BY

	RECON	AUGER	CORE	DRIVE ROD
By			NIXON VELKER	SABO
Dates			4/11-16/58	4/9-16/58
No. of Holes or Soundings			2	8
Footage			106.0	277.0
Samples Tested			19	

SITE PLANS	
Date Rec'd	3-18-58
Revised Plan	

Topo Sheet

☐ Samples Accounted For

Transmittal Date 5/9/58

No. of Tracings

Filed with year

Revisions

Remarks

Refer To

Auger Data			Drive Rod		Core Data		
No. of Holes	Footage	Samples	No. of Soundings	Footage	No. of Holes	Footage	Samples
—	—	—	8	277.0	2	106.0	19

FIELD DATA - ROD PENETRATION

Location No. #1 ✓ **County:** Mont Gomery
REAR ✓ **Pier - Abut.** S.E. ✓ **Bridge No.** 35 MOT-35-
Station: 21+63 ✓ ~~Over~~ Woodman P.R.
Offset: 11' RT ✓ OVER PENN. R.R.
Started: 4-15-58
Completed: 4-15-58 ✓ **Equipment:** D.B.
TOP OF PILE 907.5 ✓ **Diameter** 1.35
Ground Line 856.0 ✓

Proposed Footer

Depth Feet	Penetration	Elevation	
0			
			No water ✓
	3 1/4	882.0	
5	3 1/4	881.0	
	2 3/8		
	1 3/4		
	1 3/4		
	1 5/16		
10	1 1/16	876.0	
	1 -	875.0	
	- 3/4	874.0	
	3/4		
	5/8		
15	5/8	871.0	
	1/2		Hole - Closed 870.0
	9/16		
	1/2		
	1/2		
20	1/2	866.0	
	1/2		
	3/8		
	5/16		
	1/4		
25	3/16	861.0	

Party BA

Depth Feet	Penetration	Elevation	
25		861.0	
	3/16	860.0	
	3/8		
	1/2		
	1/4		
30	-	856.0	
	1/4		
	5/16		
	5/16		
	5/16		
35	1/4	851.0	
	3/8		
	3/16		
	3/16		
	3/8		
18.0			
18.0			
40	1/2	846.0	
45			
50			
55			
60			

MOT-35-1934

Rod Condition: Good ✓

Chief of Party SABO

FIELD DATA - ROD PENETRATION

Location No. #2 ✓ County: MONTGOMERY ✓

REAR ✓ ~~Pier~~ - Abut. S.W. ✓ Bridge No. MOT-35-

Station: 21+76 ✓ ~~Over~~ WOODMAN DR.

Offset: 35' LT ✓ OVER PENN. R.R.

Started: 4-11-58

Completed: 4-14-58 Equipment: 21-0-24

TOP OF PILE 907.3 ✓ D.R. Diameter 1.35

Ground Line

Depth Feet	Penetration	Elevation	Proposed Footer
		890.9 ✓	
0			
			NO-WATER ✓
	2"	886.9	
5	3/8	885.9	
	1/4		
	1/8		
		882.9	
	2/4	881.9	
10	3/4	880.9	
	1/2		
	3/8		
	5/16		
	1/4		
15	5/16	875.9	week-end-check. - 3/8
	3/8		
	7/16		
	7/16		
	1/2		Hole - Closed 871.9
20	1/2	870.9	
	5/16		
	5/16		
	5/16		
	1/4		
25	3/16	865.9	

Party [illegible] Baum

Depth Feet	Penetration	Elevation	Proposed Footer
25		865.9	
	3/4	864.9	
	1/4		
	1/4		
	5/16		
	1/8		
30	5	860.9	
35			
40			
45			
50			
55			
60			

R: 17.0, 16.0, 17.0, 18.0, 18.0

Rod Condition: Good ✓

Chief of Party SABo

FIELD DATA - ROD PENETRATION

Location No. #3 ✓ **County:** Montgomery

Rear ✓ **Pier** ✓ - **Abut.** **Bridge No.** 35 -

Station: 21+91 **Over:** Woodman Rd.

Offset: 30' Rt. over Penn. R.R.

Started: 4-16 58

Completed: 4-16 58 **Equipment:** D.P.

Diameter 1.85

Ground Line Elevation 886.6 ✓

Proposed Footer NO - WATER ✓

R	Depth Feet	Penetration		Elevation
	0			
3.9		3	7/8	882.6
4.3	5	3	9/16	881.6
5.5		2	1/2	
3.3		2	-	
1.0		1	3/4	
1.6		1	1/2	
1.5	10	1	1/4	876.6
9.3		1	1/16	875.6
10.3		-	7/8	874.6
0.3		-	7/8	
12.0		-	5/8	
12.5	15	-	9/16	871.6
		-	1/16	Hole - Closed 870.6
13.0		-	1/2	
		-	1/2	
		-	1/2	
	20	-	1/2	866.6
13.5		-	9/16	
1.0		-	1/2	
3.5		-	7/16	
1.5		-	7/16	
1.5	25	-	7/16	861.6

R				
	25			861.6
17.0		3/16		860.6
18.0		1/4		
		1/4		
		1/4		
	30	1/4		856.6
		1/8		
17.0		3/16		
18.0		1/8		
18.0		1/8		852.6
	35			~~851.6~~
	40			
	45			
	50			
	55			
	60			

Rod Condition: Good ✓

Party BALINT

Chief of Party SABO

FIELD DATA - ROD PENETRATION

Location No. #4 ✓ **County:** MONTGOMERY

Rev ✓ **Pier - Abut.** **Bridge No.** 35 MOT-35

Station: 22 + 04 ✓ **Over** WOODMAN DR.

Offset: 11' Lt. ✓ **Over** PENN. R.R.

Started: 4-14-58

Completed: 4-15-58 ✓ **Equipment:** DIR

21-0-29 **Diameter** 1.35

Elevation ~~894.0~~ 884.0 ✓ **Ground Line**

R	Depth Feet	Penetration	Elevation	Proposed Footer
	0			NO - WATER ✓
3.1		5 -		
4.6	5	3 1/8	~~884.0~~	883.0
6.1		2 1/8		
7.6		1 1/2		
9.0		1 1/4		
9.6		1 1		
.6	10	1 -	~~877.0~~	878.0
11.0		- 3/4	877.0	
12.5		- 9/16		OVER-NITE-CHECK - 3/4
11.5		- 11/16		
30		- 1/2		
	15	- 1/2	~~872.0~~	871.0
13.5		- 9/16		
13.5		- 9/16		
1.0		- 1/2		Hole - Closed 872.0
		- 1/2		
	20	- 1/2	~~868.0~~	868.0
13.5		- 9/16		
18		- 9/16		
13.0		- 1/2		
8.5		9/16		
4.0	25	- 3/8	~~866.0~~	863.0

Party BALINT

R				
	25		~~[illegible]~~	
13.0	-	1/2	862.0	
14.6	-	3/8		
16.0	-	1/4		
16.0	-	3/16		
	30	-	~~860.0~~	858.0
16.0	-			
17.0	-			
17.0	-			
18.0	-			
18.0	35	-	~~856.0~~	853.0
	40			
	45			
	50			
	55			
	60			

Rod Condition: GOOD ✓

Chief of Party SABO

FIELD DATA - ROD PENETRATION

Location No. #5 ✓ County: MoT.

WBD ✓ Pier - Abut. Bridge No. MoT-35-

Station: 22+40 ✓ Woodman Dr.

Offset: 6' Rt. ✓ over P.R.R.

Started: 4-14-58

Completed: 4-15-58 ✓ Equipment: 21-23

DR Diameter 1.36

Elevation 884.6 ✓ Ground Line

R	Depth Feet	Penetration	Elevation	Proposed Footer
	0			No - Water ✓
13		3 3/8	880.6	
.0	5	2 3/16	879.6	
.0		1 1/8	878.6	
.0		3/4	877.6+	
.3		7/8		
.3		7/8		
.0	10	3/4	874.6	
3.0		1/2+		
13.5		7/16		
4.0		3/8		
3.5		7/16		
4.0	15	3/8	869.6	Overnight # 518
17.5		7/16		Hole - Closed 868.6
15.0		5/16		
.0		1/2+		
3.0		1/2		
3.5	20	7/16	864.6	
15.0		5/16		
4.0		3/8		
5.0		5/16		
.0		1/4		
.0	25	1/8	859.6	

Party Gwentine McKean

R				
25		859.6		
19.0	1/8+	858.6		
16.0	1/4			
17.0	3/16			
17.0	3/16+			
15.0	30 5/16	854.6		
14.0	3/8			
16.0	1/4			
17.0	3/16			
18.0	1/8			
16.0	35 1/8+	849.6		
19.0	1/16	848.6	✓	
	40	844.6		
	45			
	50			
	55			
	60			

Rod Condition: Good ✓

Chief of Party S.A.B.

FIELD DATA - ROD PENETRATION

Location No. #6 ✓ County: MoT.

FWD ✓ Pier ✓ ~~Abut.~~ Bridge No.

Station: 22+53 ✓ ~~Over~~: Woodman Dr.

Offset: 35' Lt. ✓ Over PRR

Started: 4-15-58

Completed: 4-16-58 ✓ Equipment: 21-0-23

D.R. Diameter 1.35

Elevation 886.7 ✓ Ground Line

	Depth Feet	Penetration		Elevation	Proposed Footer
	0				NO-WATER ✓
4.7		3	1/16	882.7	
5.8	5	2	1/4	881.7	
7.3		1	5/8		
9.3		1	1/16	879.7	
10.0			15/16	878.7	
10.3			7/8		
11.0	10		11/16	876.7	
13.0			1/2		
12.5			9/16		
13.0			1/2		
14.0			3/8		
13.5	15		7/16	871.7	Hole-Closed 8/4/57
14.0			3/8		
14.0			3/8		
13.5			7/16		
14.0			3/8		
16.0	20		1/4	866.7	
15.0			5/16		
15.0			5/16		
16.0			1/4		
16.0			1/4+		
16.0	25		1/4	861.7	

Party Galentine McKean

R	25		861.7	
15.0		5/16	860.7	
16.0		1/4		
15.0		5/16		
17.0		3/16		
16.0	30	1/4	856.7	
		1/4		
		1/4		
		1/4		
17.0		3/16		
17.0	35	3/16	851.7	
17.0		3/16+		
16.0		1/4		
17.0		3/16		
17.0		3/16+		
17.0	40	3/16	846.7	
16.0		1/4		
16.0		1/4		
18.0		1/8+		
18.0		1/8		OVERNIGHT F. 5+
19.0	45	1/16+	841.7	
	50			
	55			
	60			

Rod Condition: Good ✓

Chief of Party SABo

FIELD DATA - ROD PENETRATION

Location No. #7 County: MONT.

FWD ~~Pier~~ - Abutt Bridge No. MOT-35-

Station: 22+69 ~~Cross~~: WOODMAN DR.

Offset: 33' RT. OVER R.R.R.

Started: 4-9-58

Completed: 4-11-58 Equipment: 21-0-23

TOP OF PILE 906.6 DR Diameter 1.35

Elevation 882.7

Ground Line

Proposed Footer

Depth Feet	Penetration	Elevation	
0			
	*		NO-WATER
	2 5/8	878.7	
5	2 1/16	870.7	
	1 1/2		
	1 5/16		
	1 3/16		
	1 3/16		
10	1 3/16+	872.7	
	1 1/16	871.7	
	1 5/16	870.7	
	3/4		
	11/16		
15	5/8	867.7	
	9/16		
	9/16		
	1/2		
	1/2+		Hole - Closed 862.7
20	1/4	862.7	
	5/16		
	5/16+		
	1/4		
	1/8		OVER NIGHT #1/8+-
25	1 1/16	857.7	

Party Galen Tine McKean

Depth	Penetration	Elevation	
25			
30			
35			
40			
45			
50			
55			
60			

Rod Condition: Good

Chief of Party Sabo

FIELD DATA - ROD PENETRATION

Location No. II 8 ✓ **County:** Mont.

FWO. ✓ **Pier** - **Abut.** ✓ **Bridge No.** MoT-35-

Station: 22+81 ✓ ~~Comm~~ Bloodman DR

Offset: 11' LT VOHER P.R.R ~~over bridge~~

Started: 4-11-58

Completed: 4-14-58 ✓ **Equipment:** 21-0-23

Top of Pile 736.2 ✓ D.R **Diameter** 1.35

Elevation 883.8 ✓ **Ground Line**

R	Depth Feet	Penetration		Elevation	Proposed Footer
	0				No ~ water ✓.
4.6		3	1/8	879.8	
5.5	5	2	1/2	878.8	
6.8		1	13/16		
7.6		1	1/2		
8.7		1	3/16	875.8	
10.3			7/8	874.8	
12.0	10		5/8	873.8	
13.0			1/2		
			1/2		
			1/2		
15.5			7/16		
	15		7/16	868.8	
13.0			1/2		Hole - Closed 869.8
15.0			5/16		
14.0			3/8		
			3/8		
	20		3/8+	863.8	
			3/8		
15.0			5/16		
16.0			1/4		
16.0			1/8+		
16.0	25		1/4	858.8	

R	Depth			Elevation
	25			858.8
14.0		3/8		857.8
14.0		3/8		
15.0		5/16		
14.0		3/8		
16.0	30	1/4		853.8
18.0		1/8+		852.8
19.0	32.2	1/16		851.8 ✓
	35			848.8
	40			
	45			
	50			
	55			
	60			

Rod Condition: Good ✓

Party Gale Tine McKehn

Chief of Party SABo

FIELD DATA - SOIL LOG

Location No. 3 County: Montgomery

Pier - Abut. Bridge No. MOT-35

Station: 21487 Name: Woodman Rd. over Penna RR

Offset: 31' Rt. also included with Woodman Dr over Prop USR 35

Started: 4-11-58 Equipment: Core Drill

Completed: 4-16-58 Diameter

Proposed Footer:

Water Level:

Depth Feet	Log	Samples	Elevation	Description
0			886.0	Ground Line
5	Brown Silt Clay Sand & Gravel	1	881.0	4/14 = Br. Silt Clay - Sand & Sm. Gravel
10	Brown Silt Clay Sand & Gravel	2	876.0	14/25 = Brn. Silty Clay - Sand & Very Gravel
15	Brown Silt Clay	3	871.0	22/38 Brn to Grey Silt Clay Coarse Sand & Gravel
20	Grey Sandy Silt Clay	4	867.5 867.0 866.0	Water Change @ 18.5
25			861.0	8/36 Grey Sandy Silt Clay
26			860.0	Water Change @ 26'
30	Grey Sandy Silt Clay Assorted Gravel	6	856.0	Br. Silt Sand with Assorted Gravel. Water Change @ 30'. 25/47 Grey Sandy Silt Clay with Assorted Gravel
35		7	851.0	15/35 Two Attempts Grey Sandy Silt Clay with Assorted Gravel Sample Damp
40		8	846.0	43/44 - Third Attempt First Two Attempts Boulders in Sample Tube Grey Sandy Silt & Calc Grey
45	Grey Sandy Silt Calc Grey Clay		841.0	Clay
			840.0	12/14-26 Calc Grey Clay Water Change @ 46'
50	Cored Large Boulders	10	836.0	No Sample Attempted - Calcification Stopped Drill Cored From 50' To 65' Large Boulders To Large To Attempt To Case
55			831.0	
60				

Light Br. Water Brown Water Grey Water

Remarks: 40' Casing

Party Yzelka E. F. Lassare

Chief of Party

SO-6

County, Rt. No., Section MOT-35-19.34

Bridge No. MOT-35-~~10.34~~ WOODMAN DR OVER PENNA RR - (as T.H.3)

T.H. 3 Sta. 21+87-31' RT Sur El = 886.6 (Note: Also used with MOT-35- WOODMAN DR OVER PRUP USR-35 - No T.H. Number)

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

1/2

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis: Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Characteristics: L.L.	P.I.	Water Cont.	Ohio Class.	Remarks
88339	1	21+87 31' Rt	5'-6'	19	8	12	35	24	26	11	25	A-6a	GRAV. SANDY CLAY
88340	2	" "	10'-11'	5	4	7	42	42	31	14	17	A-6a	silt & clay
88341	3	" "	15'-16'	23	13	15	29	20	23	9	12	A-4a	GRAV. SANDY SILT
88342	4	" "	20'-21'	0	1	6	58	35	21	8	13	A-4b	silt
88343	5	" "	25-26	15	34	31	14	6	N-P		12	A-3a	gravelly silty sand
88344	6	" "	30'-31'	19	9	15	30	27	22	10	9	A-4a	GRAV. SANDY SILT
88345	7	" "	35-36	35	12	12	22	19	22	9	15	A-4a	SANDY GRAV. SILT
88346	8	" "	40'-41	0	1	13	42	44	25	11	18	A-6a	silt & clay
88347	9	" "	45-46	0	1	3	29	67	37	19	24	A-6b	silty clay

T.H. 3,

FIELD DATA - SOIL LOG

Location No. 5 **County:** MONTGOMERY

FORWARD **Pier** ~~Abut.~~ (Offset) **Bridge No.** MOT-35-

Station: 22+49 **Over** ~~Pen. R.R.~~ WOODMAN DR

Offset: 5' Lt ℄ OVER Penna R.R.

Started: 4-14-58 **Equipment:** Core Drill

Completed: 4-15-58 **Diameter**

Unable To Reach 7" w/o without Cut

Proposed Footer:

Water Level: 869.0

Hole Closed Mr 7650 After Pulling Casing

MOT-35-1934

Depth Feet	Log	Samples	Elevation	Ground Line	
0			887.0		Fill Brown Sandy Clay Silt with Gravel & Rock Stone
4.5					
5		■	882.0		3/4" / 1/16" } Brown Sandy Clay Silt with Small Gravel & Rock Stone. Sample Moist
9.0					
10		■	878.0		
			877.0		6/12" / 3/12" } Gray Silty Sand & Assorted Gravel with Broken Stone "Wet"
13.0			874.0		
15		■	872.0		11/12" / 24" } Gray Colo. Clay Silt. Sample Moist
20.4					
20		■	867.0		23/12" / 29/12" } Brown Silty Sand Assorted Gravel Small Amt. Clay "Colo." Sample Moist To Wet
24.0			863.0		
25			862.0		7/12"
			857.0		
26					37/12" } Gray Colo Clay Silt with Small Amt. Fine Grain Sand. Sample Damp
28.0					
30		■	857.0		29/12" / 30/12" } Brown Silty Coarse Grain Sand & Assorted Gravel - To Colo. Gray Clay Silt with Small Amt. Fine Sand & Gravel. Sample Wet To Moist
35		■	852.0		10/12" } Lost Sample
					37/12" / 8/12" } Gray Sandy Clay Silt with Gravel & Rock Stone. Used Trap
40		■	847.0		Sample Wet "Colo."
					7/12" / 49/12" } Gray Colo. Clay Silt with Small Amt. Fine Sand & Assorted Gravels - Indication of Small Boulders
43.0			844.0		
45		■	842.0		28/12" / 18/12" } Gray Colo. Coarse Grain Sand & Assorted Gravel
48.0			839.0		Used Trap
50		■	837.0		
			836.0		6/12" / 47/12" } Gray Colo. Silt Clay
55					Used 50' Casing on Hole Drive Hard & Pulled Hard
60					

Remarks:

Party NBL D.R.

Chief of Party E.M.

OK

T.H.5

SO-6

County, Rt. No., Section MOT - 35 - 19.24

Bridge No. MOT - 35 - 1734 DOORMAN DR OVER PENNA R.R.

T.H. 5 (Alt.) Sta. 22+49 - 5' LT Surf El = 887.0

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

2/2

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis: Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Characteristics: L.L.	P.I.	Water Cont.	Ohio Class.	Remarks
88329	1	22+49 5'LT	5'-6'	16	10	17	33	24	22	8	12	A-4a	Brn. GRAV. SANDY silt
88330	2	" "	10'-11'	38	24	12	16	10	19	4	16	A-2-4	Gray silty SANDY GRAVEL
88331	3	" "	15-16	11	3	5	46	35	27	11	16	A-6a	Gray silt & clay
88332	4	" "	20'-21'	48	0	1	28	23	18	5	17	A-4a	Brown GRAV. silt
88333	5	" "	25'-26'	0	22	27	32	19	21	6	19	A-4a	Gray SANDY silt
88334	6	" "	30'-31'	16	9	21	32	22	16	4	14	A-4a	Brown GRAV. SANDY silt
88335	7	" "	35-36	43	13	13	17	14	19	6	15	A-2-4	Gray silty SANDY GRAVEL
88336	8	" "	40-41	24	8	11	33	24	20	8	13	A-4a	SANDY GRAV. silt
88337	9	" "	45-46	41	35	19	3	2	N	P	16	A-1-b	GRAVELLY SAND
88338	10	" "	50'-51'	0	1	0	44	55	33	15	22	A-6a	silt & clay

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. MONTGOMERY
MOT-35-19.34 GRE-35-0.00
MOT-35-
WOODMAN DR. OVER PENNA. RR
SHEET NO. 1 OF 19 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS: % AGGREGATE RET. #10	% COARSE SAND 2.0MM-0.42MM	% FINE SAND 0.42MM-0.074MM	% SILT 0.074MM-0.005MM	% CLAY <0.005MM	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	DESCRIPTION
										LOG OF WILLIAMS AUGER BORING
	STA 21+65	8' LT. Surf.El.889.0								Depth
										0.0-0.8 SOD & TOPSOIL
48	87380	0	6	17	34	43	39	20	11	0.8-4.0 BROWN SANDY CLAY
49	87381	12	10	18	41	19	20	4	15	4.0-10.0 BROWN SANDY SILT
50	87382	5	4	8	47	36	26	11	15	10.0-14.0 BROWN SILT & CLAY
51	87383	9	4	9	47	31	25	11	11	14.0-18.0 GRAY SANDY CLAY
52	87384	15	6	11	42	26	24	8	15	18.0-20.0 BROWN SANDY SILT
										DRIVE SAMPLES
1	88329	16	10	17	33	24	22	8	12	BROWN GRAVELLY SANDY SILT
2	88330	38	24	12	16	10	19	4	16	BROWN SILTY SANDY GRAVEL
3	88331	11	3	5	46	35	27	11	16	BROWN SILT & CLAY
4	88332	48	0	1	28	23	18	5	17	GRAY GRAVELLY SILT
5	88333	0	22	27	32	19	21	6	19	BROWN SANDY SILT
6	88334	16	9	21	32	22	16	4	14	GRAY GRAVELLY SANDY SILT
7	88335	43	13	13	17	14	19	6	15	BROWN SILTY SANDY GRAVEL
8	88336	24	8	11	33	24	20	8	13	GRAY SANDY GRAVELLY SILT
9	88337	41	35	19	3	2	NP	NP	16	GRAY GRAVELLY SAND
10	88338	0	1	0	44	55	33	15	22	GRAY SILT & CLAY
										LOG OF WILLIAMS AUGER BORING
	STA 1050+00	150' LT., Surf.El.893.9								Depth
										0.0-0.8 SOD & TOPSOIL
45	87377	19	8	13	33	27	28	11	17	0.8-3.0 BR. GRAVELLY SANDY CLAY
46	87378	22	16	19	29	14	20	7	11	3.0-9.0 BR. GRAVELLY SANDY SILT
47	87379	5	3	7	51	34	25	8	13	9.0-10.0 GRAY SILT

RC

5-9-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. MONTGOMERY
MOT-35-19.34 GRE-35-0.00
MOT-35-
WOODMAN DR. OVER PENNA. RR
SHEET NO. 2 OF 12 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS							WATER CONTENT	DESCRIPTION
		% AGGREGATE RET. # 10	% COARSE SAND 2.0MM - 0.42MM	% FINE SAND 0.42MM - 0.074MM	% SILT 0.074MM - 0.005MM	% CLAY <0.005MM	LIQUID LIMIT	PLASTICITY INDEX		
										DRIVE SAMPLES
1	88339	19	8	14	35	24	26	11	25	BROWN GRAVELLY SANDY CLAY
2	88340	5	4	7	42	42	31	14	17	BROWN SILT & CLAY
3	88341	23	13	15	29	20	23	9	12	BR.& GR. GRAVELLY SANDY SILT
4	88342	0	1	6	58	35	21	8	13	GRAY SILT
5	88343	15	34	31	14	6	NP	NP	12	BROWN SILTY GRAVELLY SAND
6	88344	19	9	15	30	27	22	10	9	GRAY GRAVELLY SANDY SILT
7	88345	35	12	12	22	19	22	9	15	GRAY SANDY GRAVELLY SILT
8	88346	0	1	13	42	44	25	11	18	GRAY SILT & CLAY
9	88347	0	1	3	29	67	37	19	24	GRAY SILTY CLAY

RC

5-9-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR PIER WOODMAN DR. OVER PENNA. RR

LOCATION: T.H. 3 STA. 21+87 OFFSET 31' RT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
886.0	0			
	2			
	4			
881.0	6	4/14	88339	Brown Gravelly Sandy Clay
	8			
876.0	10	14/25	88340	Brown Silt & Clay
	12			
	14			
871.0	16	22/38	88341	Brown & Gray Gravelly Sandy Silt
	18			
866.0	20	8/26	88342	Gray Silt
	22			
	24			
861.0	26	14/31	88343	Brown Silty Gravelly Sand
	28			
856.0	30	25/47	88344	Gray Gravelly Sandy Silt
	32			
	34			
851.0	36	15/35	88345	Gray Sandy Gravelly Silt

LOG OF BORING (CONTINUED)

BRIDGE NO. MOT-35- T.H. 3

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
846.0	40	43/44	88346	Gray Silt & Clay
	42			
	44			
841.0	46	12/14	88347	Gray Silty Clay
	48			
836.0	50	-----	-----	Boulders
	52			
	54			
831.0		-----	-----	Boulders
	56			BOTTOM OF BORING
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC
5-9-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO MOT-35-
FORWARD PIER WOODMAN DR. OVER PENNA. RR

LOCATION: T.H. 5 STA. 22+49 OFFSET 5' LT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
887.0	0			
	2			
	4			
882.0	6	8/12	88329	Brown Gravelly Sandy Silt
	8			
877.0	10			
	12	16/39	88330	Brown Silty Sandy Gravel
	14			
872.0	16	11/26	88331	Gray Silt & Clay
	18			
867.0	20			
	22	23/39	88332	Brn. Gravelly Silt
	24			
862.0	26	11/27	88333	Gray Sandy Silt
	28			
857.0	30			
	32	19/30	88334	Brn. Gravelly Sandy Silt
	34			
852.0	36	10/27	88335	Gray Silty Sandy Gravel

LOG OF BORING (CONTINUED)

BRIDGE NO. MOT-35 T.H.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
		8/27		
	38			
847.0	40			
		7/20	88336	Gray Sandy Gravelly Silt
	42			
	44			
842.0				
	46	20/53	88337	Gray Gravelly Sand
	48			
837.0	50			
836.0		16/49	88338	Gray Silt & Clay
	52			BOTTOM OF BORING
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC
5 9 58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

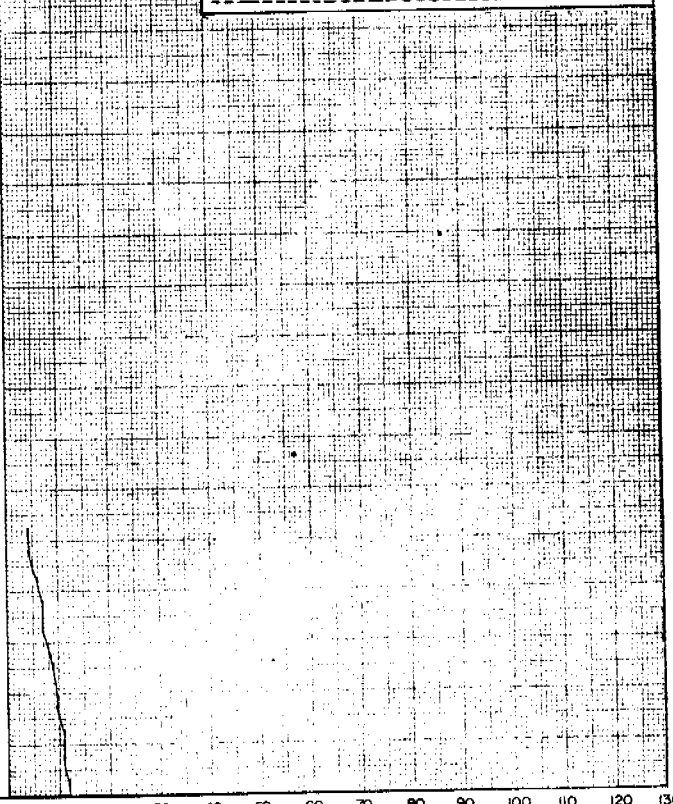
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.09 BRIDGE NO. MOT-35-
REAR ABUTMENT WOODMAN DR. OVER PENNA. RR

LOCATION T.H. 1 STA. 21+63 OFFSET 11' RT. FED. NO.
GND. EL. 886.0
WATER ELEV. DRY DATE 4-15-58

ELEV.	DEPTH	SOIL LOG
907.5	0	
	2	
903.5	4	
	6	
899.5	8	
	10	
895.5	12	
	14	
891.5	16	
	18	
887.5	20	
	22	
883.5	24	
	26	
879.5	28	
	30	
875.5	32	
	34	
871.5	36	

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



10 20 30 40 50 60 70 80 90 100 110 120 130

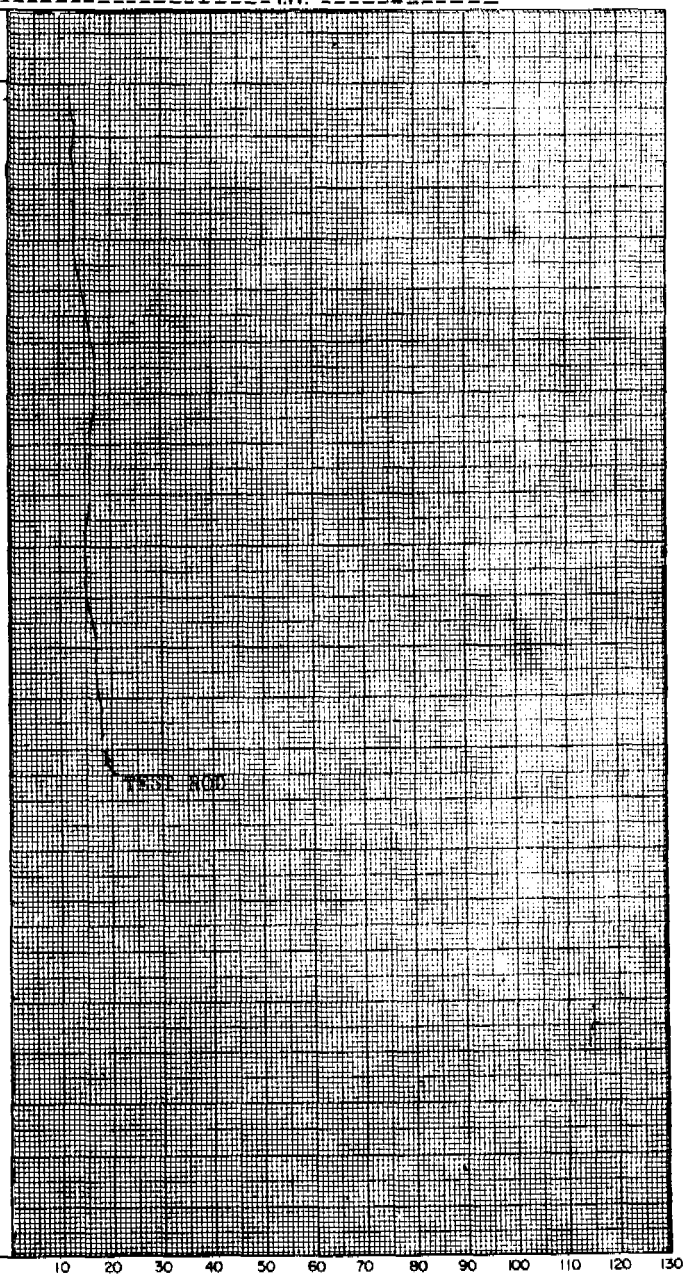
CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE 5-9-58

FOUNDATION DATA (CONTINUED) SHEET 8

BRIDGE NO. MOT-35 T.H. 1

ELEV.	DEPTH	SOIL LOG
871.5		
	38	
867.5	40	
	42	
863.5	44	
	46	
859.5	48	
	50	
855.5	52	
	54	
851.5	56	
	58	
847.5	60	
	62	
443.5	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR ABUTMENT WOODMAN DR. OVER PENNA RR

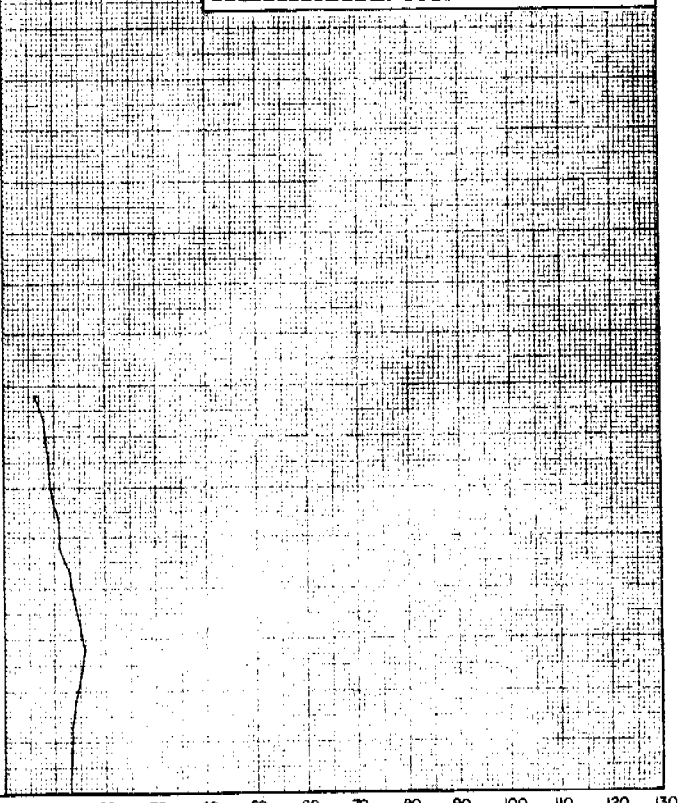
LOCATION T.H. 2 STA. 21+76 OFFSET 35' LT. FED. NO.

GND. EL. 890.9
WATER ELEV. DRY DATE 4-14-58

ELEV.	DEPTH
907.3	0
	2
903.3	4
	6
899.3	8
	10
895.3	12
	14
891.3	16
	18
887.3	20
	22
883.3	24
	26
879.3	28
	30
875.3	32
	34
871.3	36

SOIL LOG

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



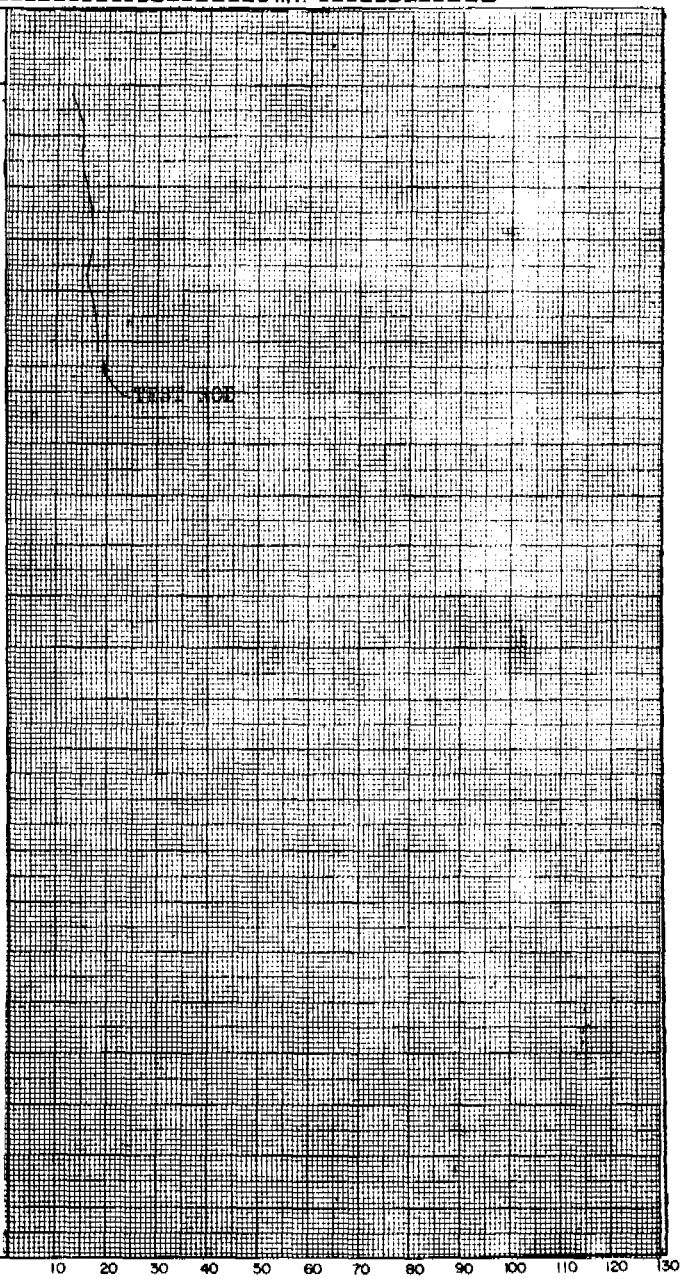
CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE 5-9-58

FOUNDATION DATA (CONTINUED) SHEET 10

BRIDGE NO. MOT-35 T.H. 2

ELEV. DEPTH 871.3	SOIL LOG
36	
867.3 40	
42	
863.3 44	
46	
859.3 48	
50	
52	
54	
56	
58	
60	
62	
64	
66	
68	
70	
72	
74	
76	
78	
80	
82	



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

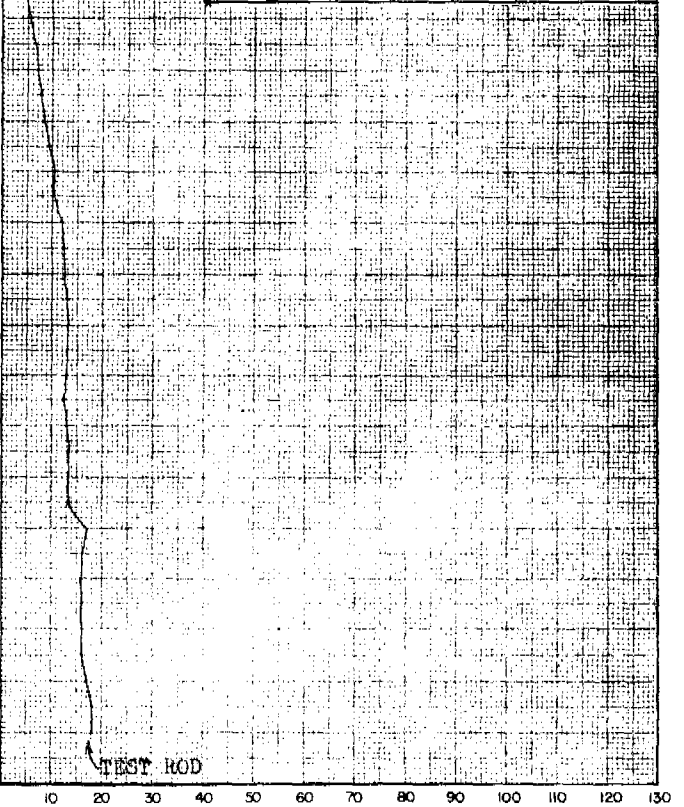
CO., RT. NO., SEC. HOT-35-19.34 GRE-35-0.00 BRIDGE NO. HOT-35-
OVER PIER WOODMAN DR. OVER PERRY RR

LOCATION T.H. 3 STA. 21+91 OFFSET 30' RT. FED. NO.

GND. EL. 886.6
WATER ELEV. DRY DATE 4-16-58

ELEV.	DEPTH	SOIL LOG
886.6	0	
	2	
882.6	4	
	6	
878.6	8	
	10	
874.6	12	
	14	
870.6	16	
	18	
866.6	20	
	22	
862.6	24	
	26	
858.6	28	
	30	
854.6	32	
	34	
850.6	36	

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE 5-9-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

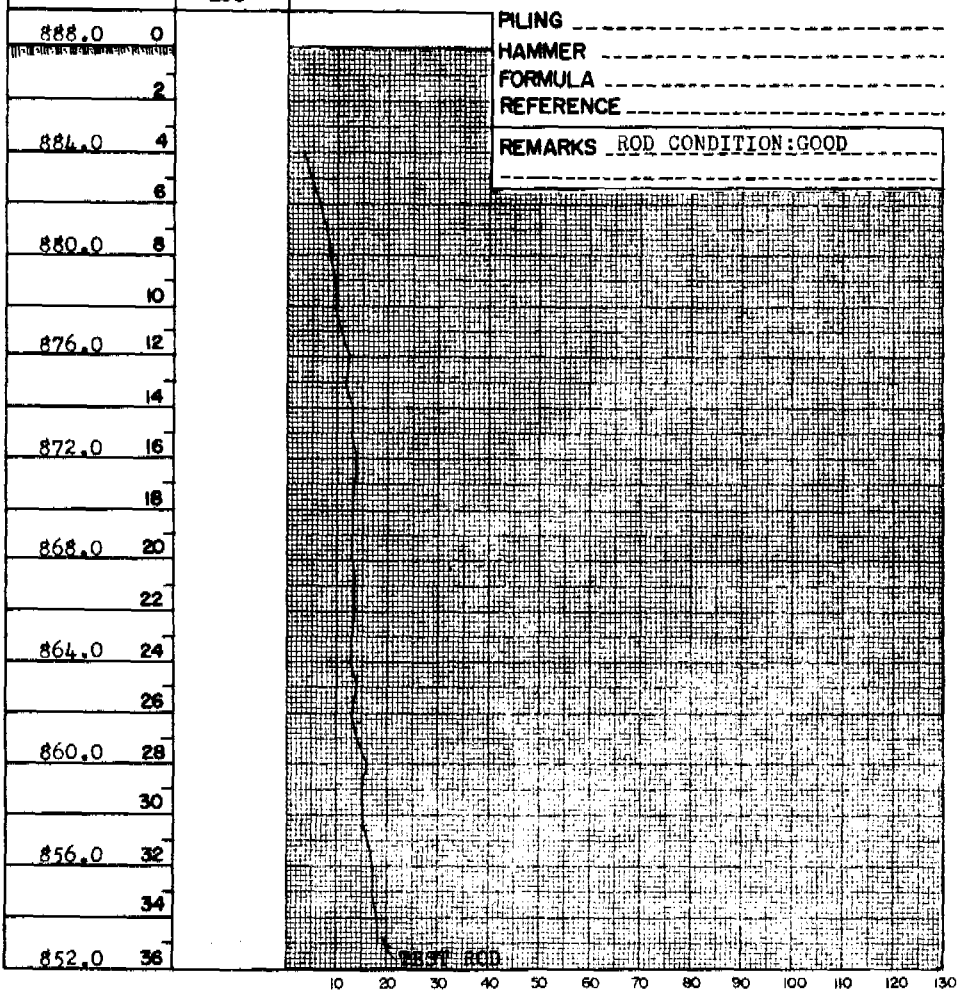
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
REAR PIER WOODMAN DR. OVER PENNA.RR

LOCATION TH. 4 STA. 22+04 OFFSET 11' LT. FED. NO.

GND.EL.888.0
WATER ELEV. DRY DATE 4-15-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION:GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE 5-9-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

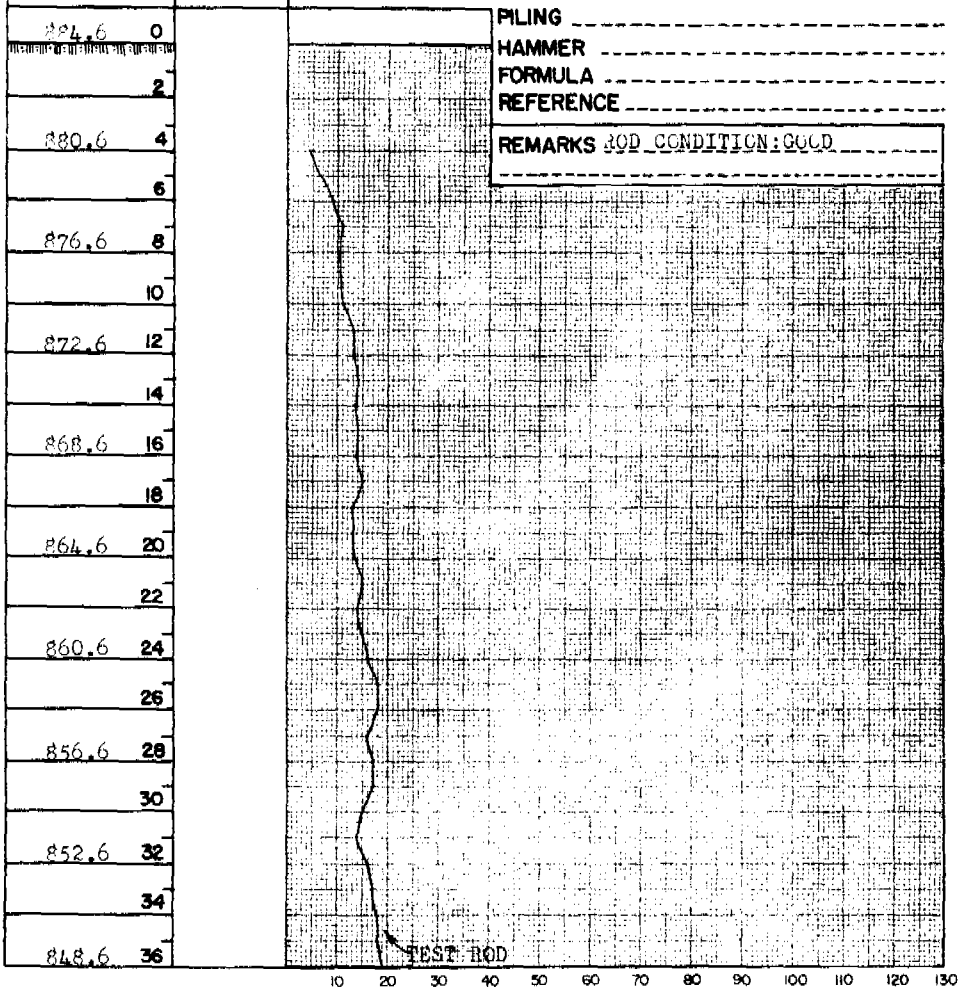
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR. OVER PENNA RR

LOCATION T.H. 5 STA. 22+40 OFFSET 6' RT. FED. NO.

GND. EL. 884.6
WATER ELEV. DRY DATE 4-15-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

BY L.N.L.
DATE 5-2-58

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

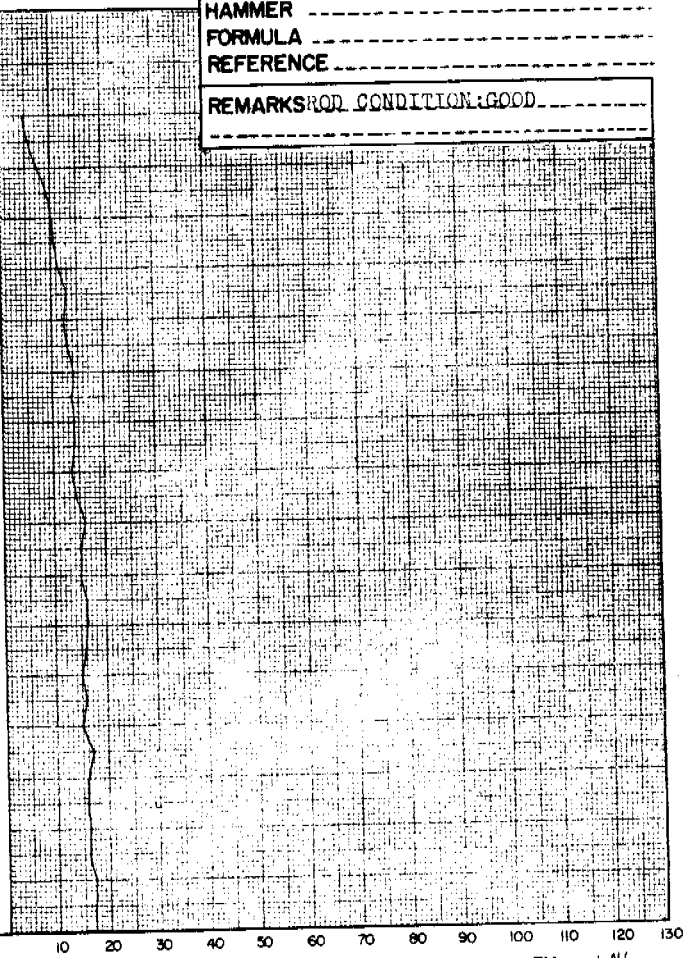
FOUNDATION DATA

CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD PIER WOODMAN DR. OVER PENNA RR

LOCATION T.H. 6 STA. 22+53 OFFSET 35' LT. FED. NO.
GND. EL. 886.7
WATER ELEV. DRY DATE 4-16-58

ELEV.	DEPTH	SOIL LOG
886.7	0	
	2	
882.7	4	
	6	
878.7	8	
	10	
874.7	12	
	14	
870.7	16	
	18	
866.7	20	
	22	
862.7	24	
	26	
858.7	28	
	30	
854.7	32	
	34	
850.7	36	

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD



CAPACITY "R" IN THOUSANDS OF POUNDS

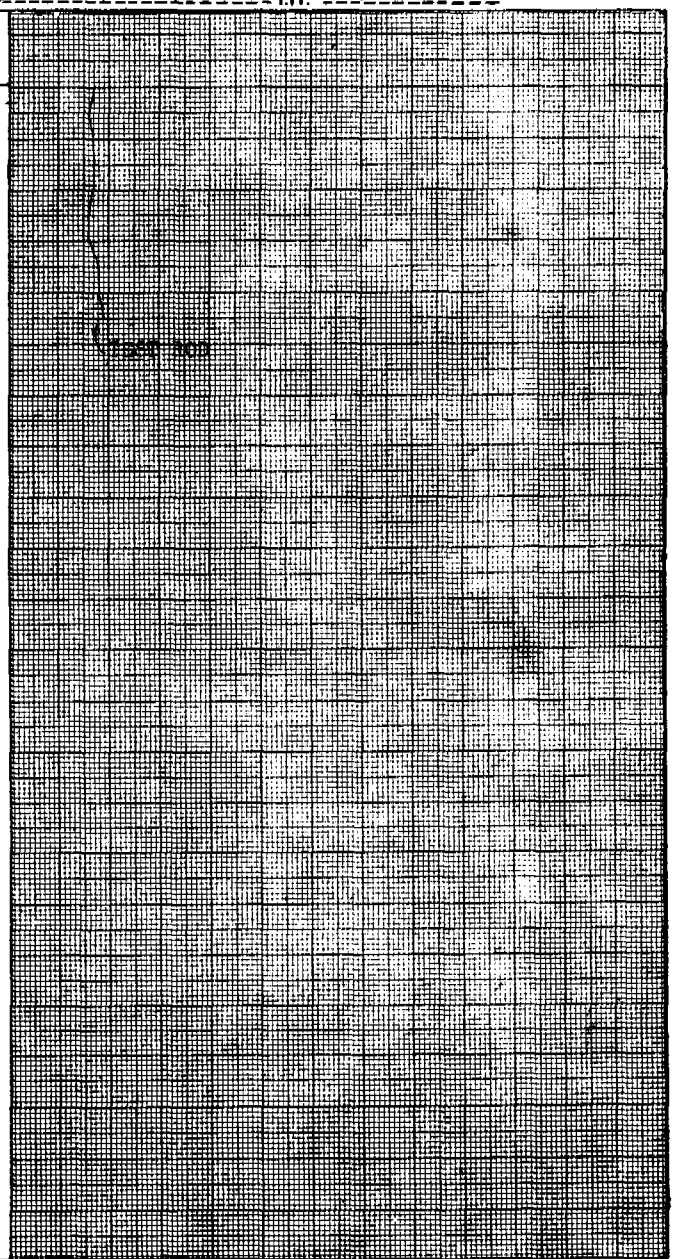
BY L.N.L.
DATE 5-9-58

FOUNDATION DATA (CONTINUED)

SHEET 15

BRIDGE NO. MOT-35 T.H. 6

ELEV.	DEPTH	SOIL LOG
850.7		
	36	
846.7	40	
	42	
842.7	44	
	46	
838.7	48	
	50	
	52	
	54	
	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

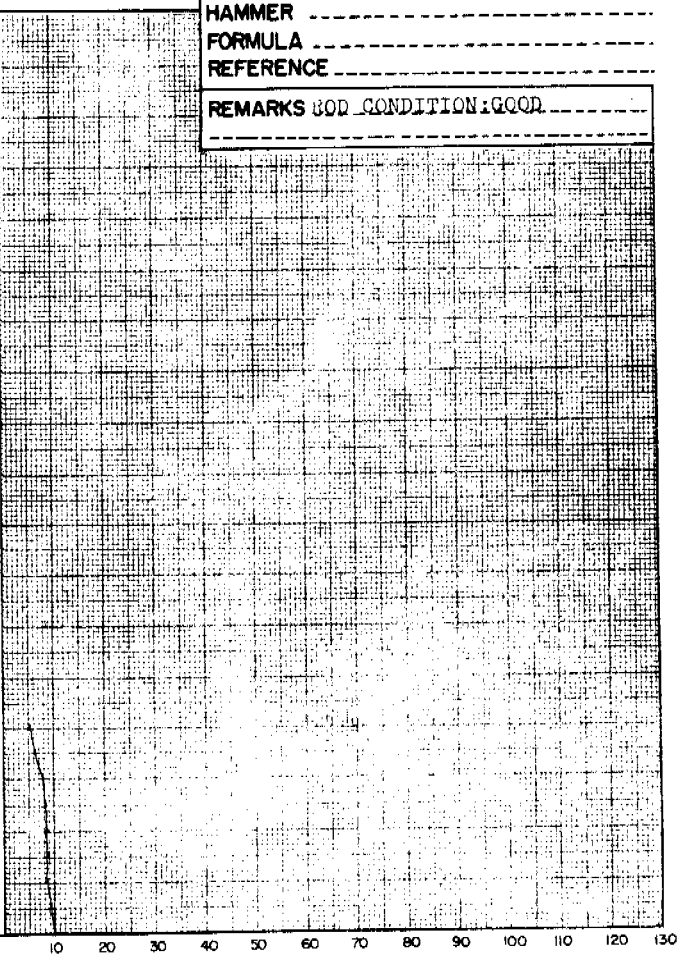
CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD ABUTMENT WOODMAN DR. OVER PENNA RR

LOCATION T.H. 7 STA. 22+69 OFFSET 33' RT. FED. NO.

GND. EL. 882.7
WATER ELEV. DRY DATE 4-11-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS BOD CONDITION: GOOD

ELEV.	DEPTH	SOIL LOG
906.6	0	
	2	
902.6	4	
	6	
898.6	8	
	10	
894.6	12	
	14	
890.6	16	
	18	
886.6	20	
	22	
882.6	24	
	26	
878.6	28	
	30	
874.6	32	
	34	
870.6	36	



CAPACITY "R" IN THOUSANDS OF POUNDS

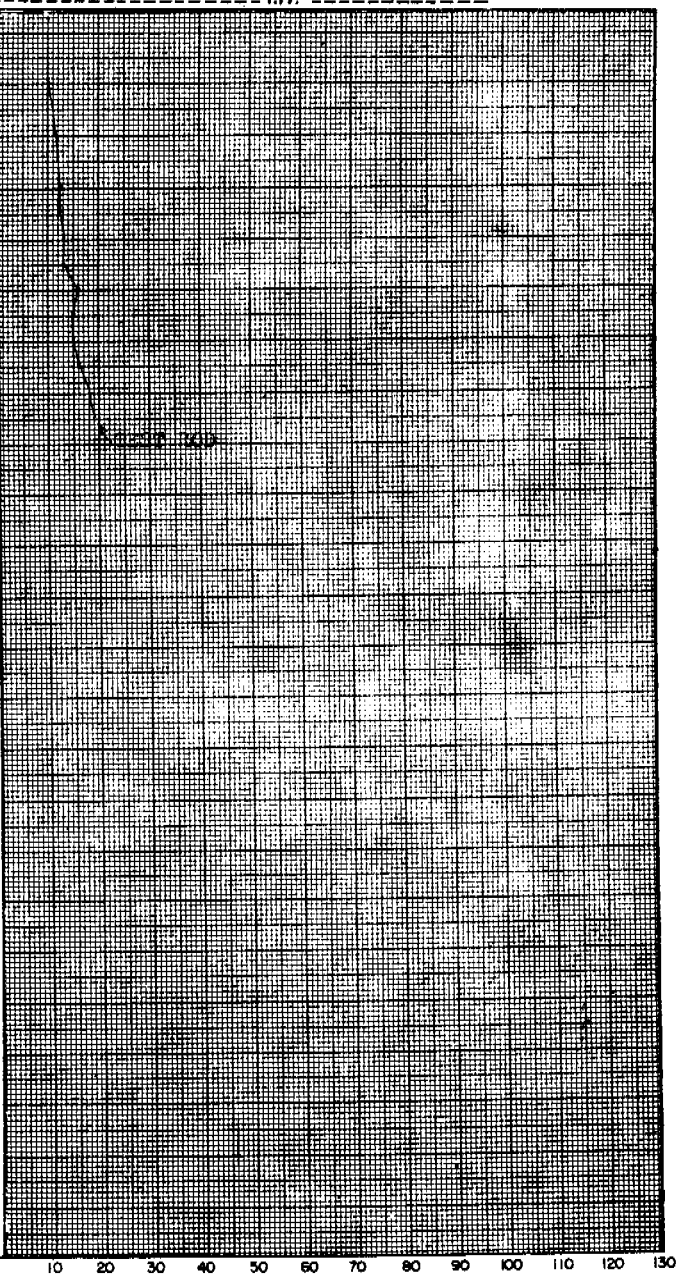
BY LNL
DATE 5-9-58

FOUNDATION DATA (CONTINUED)

SHEET 17

BRIDGE NO. MOT-35 T.H. 7

ELEV.	DEPTH	SOIL LOG
870.6		
	38	
866.6	40	
	42	
862.6	44	
	46	
858.6	48	
	50	
854.6	52	
	54	
850.6	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



CAPACITY "R" IN THOUSANDS OF POUNDS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

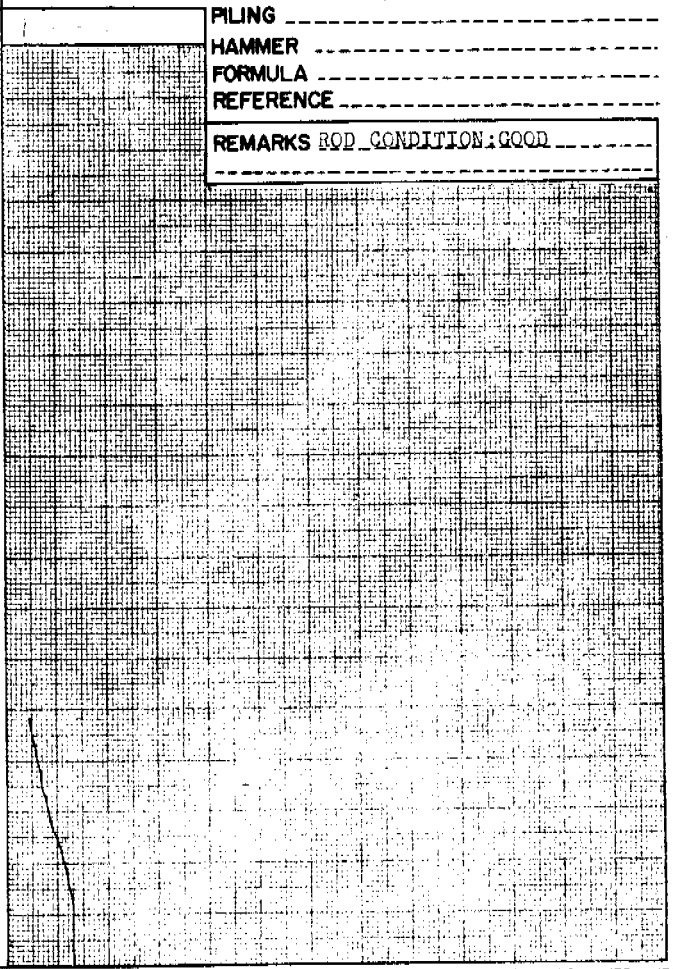
CO., RT. NO., SEC. MOT-35-19.34 GRE-35-0.00 BRIDGE NO. MOT-35-
FORWARD ABUTMENT WOODMAN DR. OVER PENNA RR

LOCATION T.H. 8 STA. 22+81 OFFSET 11' LT. FED. NO.

GND. EL. 883.8
WATER ELEV. DRY DATE 4-14-58

PILING
HAMMER
FORMULA
REFERENCE
REMARKS ROD CONDITION: GOOD

ELEV.	DEPTH	SOIL LOG
906.2	0	
	2	
902.2	4	
	6	
898.2	8	
	10	
894.2	12	
	14	
890.2	16	
	18	
886.2	20	
	22	
882.2	24	
	26	
878.2	28	
	30	
874.2	32	
	34	
870.2	36	



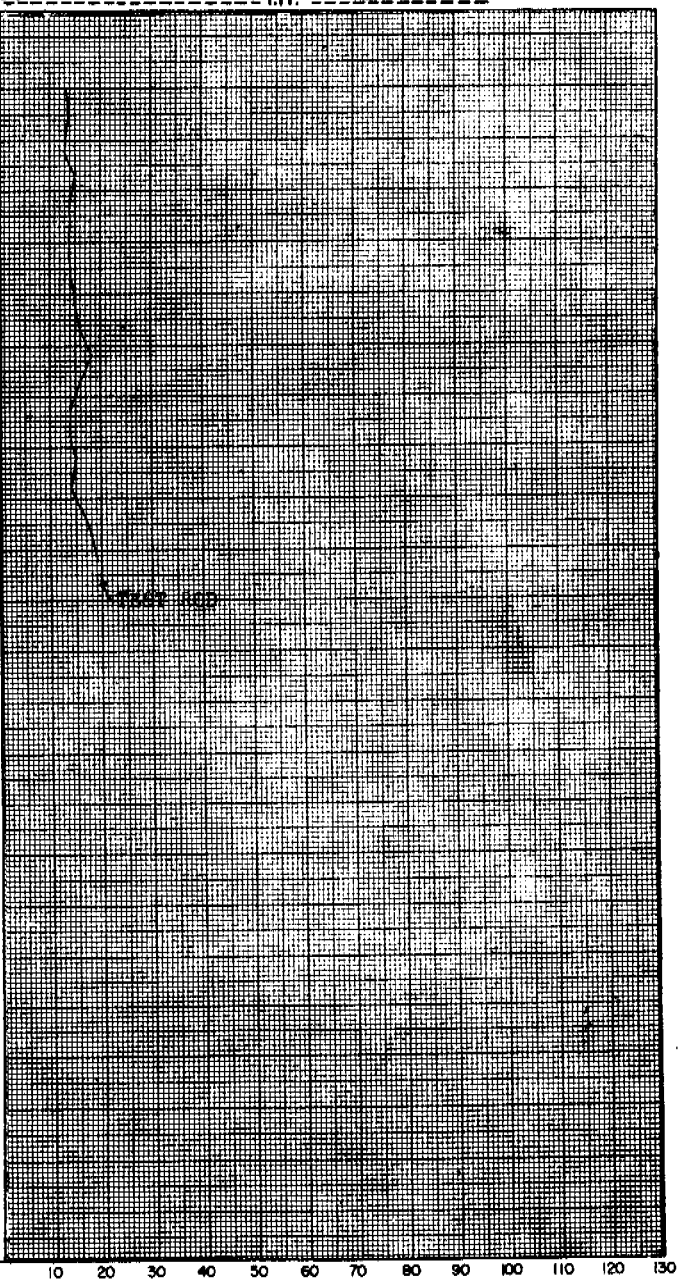
CAPACITY "R" IN THOUSANDS OF POUNDS

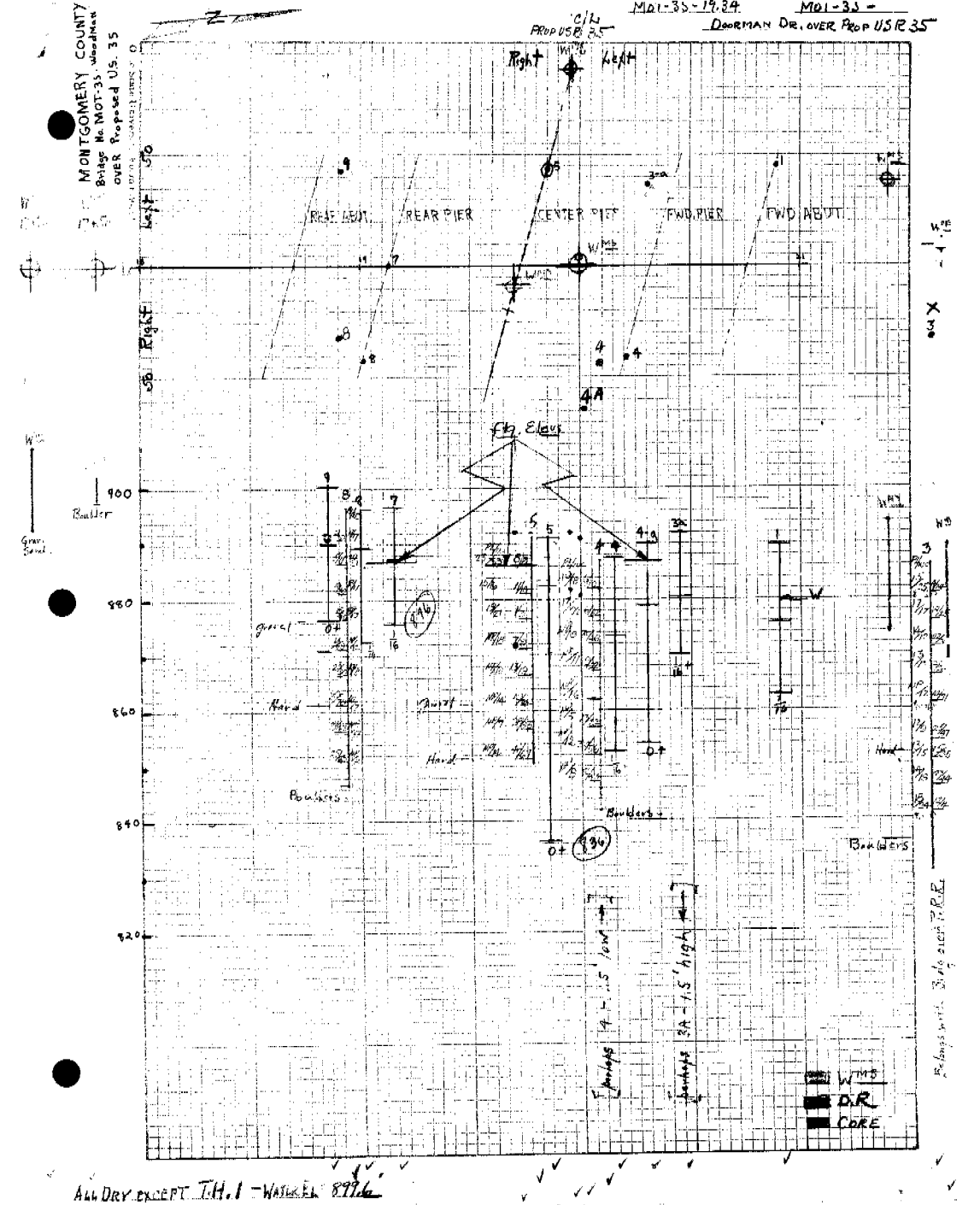
BY L.N.L.
DATE 5-9-58

FOUNDATION DATA (CONTINUED)

BRIDGE NO. MOT-35- T.H. 8

ELEV.	DEPTH	SOIL LOG
870.2		
	38	
866.2	40	
	42	
862.2	44	
	46	
858.2	48	
	50	
854.2	52	
	54	
850.2	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	




MONTGOMERY COUNTY
Bridge No. MOT-35 Woodman
over Proposed U.S. 35
MOI-35-19.34
MOI-35 -
DOORMAN DR. OVER PROP U.S. R 35
C/L PROP U.S. R 35
Right
Left
REAR ABUT.
REAR PIER
CENTER PIER
FWD PIER
FWD ABUT.
Elevs
Boulder
Gravel
Sand
Hard
Boulders
D.R.
CORE
ALL DRY EXCEPT T.H. 1 - WATER EL 899.6

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

INTER-OFFICE COMMUNICATION

S. H. Sec.

Date May 9, 1958

To Mr. Henry Overman, Engineer of Bridges Attention: C. H. Altvater

From R. R. Litehiser, Engineer of Tests Per: N. E. Mason

Subject Report of Bridge Foundation Investigation
MOT-35-Woodman Drive over P. R. R.

File: 13-4-1
Montgomery

Transmitted herewith are the results of the foundation investigation made at the above structure site as well as the logs of two soil profile auger borings made in the vicinity. The exploration consisted of eight drive rod penetration tests and two drive sample borings made between April 9 and 16, 1958.

This site lies on a portion of a dissected till plain overlying glacial outwash. Underlying bedrock is calcareous shale with thin limestone interbeds.

Borings encountered dense gravelly sandy silts and clays, from ground surface to about elevation 836 feet, overlying silty clay containing large boulders. Drive rod penetration tests indicate that the drift is somewhat dense over the entire site and terminated in the dense drift between elevation 842 and 858 feet. Borings were terminated in the bouldery zone between elevation 831 and 836 feet.

R. R. Litehiser
Engineer of Tests

Per _____
N. E. Mason
Assistant Engineer

NEM:DJR:tjl
Encl.
cc: Erdman, Anthony, and Hosley (No encl.)
G. D. Ackerman Attn: E. B. Stokes (No encl.)
N. E. Mason (3)

TESTING LAB

March 13, 195[illegible]

R. R. Litehiser, Engineer of Tests

N. E. Mason, Foundation Exploration Section

J. H. Overman, Engineer of Bridges

Raymond A. Grover, Foundation Engr.

Div. #8
County Montgomery
Greene
Sec. MGT-35-19.[illegible]
GRE-35-C.00
Bridge [illegible]

RECEIVED MAR 1958 TESTING LAB

REQUEST FOR INVESTIGATION OF BRIDGE FOUNDATION CONDITIONS

The Foundation Exploration Section of the Testing Laboratory is hereby requested to make test borings and soundings to determine the subsoil conditions existing at the above structure site. The data thus obtained is to be forwarded to this office for use in the structural design.

The recommended locations for the proposed tests have been given by station and offset on one copy of the form attached to the site plan.

Request for location and elevation stakes to be sent to:

Ulman, Anthony, & Hosley
[illegible] Young Street
Columbus 15, Ohio

Raymond A. Grover

Site Plans
Timothy Ray
[illegible] H. Altvater
R. R. I. File

PAUL S. ERDMAN
EDWIN L. ANTHONY
JOHN E. HOSLEY JR
ALBERT A. MASTRIANI

ERDMAN, ANTHONY & HOSLEY
CONSULTING ENGINEERS
22 SO. YOUNG STREET
COLUMBUS 15, OHIO
CAPITAL 4-9637

SURVEY
DESIGN AND SUPERVISION
OF CONSTRUCTION
OF
BRIDGES
HIGHWAYS
SPECIAL STRUCTURES
INDUSTRIAL PLANTS
HYDRAULIC PROJECTS
FOUNDATIONS AND BUILDINGS
PARKING GARAGES
AIRPORT FACILITIES
EXPRESSWAYS
INVESTIGATIONS & REPORTS
MANAGEMENT

March 4, 1958

to H. Marshall
3/5/58

Mr. R.E. Shultz
Engineer of Location & Design
Ohio State Department of Highways
65 South Front Street
Columbus 15, Ohio

File: 13-3-1
Montgomery
Greene

Re: MOT-35-19.34
GRE-35-0.00

Attention: O.W. Gruebmeyer

Dear Mr. Gruebmeyer:

We are delivering this date two (2) sets of prints of the referenced projects for use by the Department of Highways in securing the soils profile.

Each set includes plan and profile sheets of the main alignment, typical roadway sections for the main alignment, and other plans showing reroutings and temporary connections. All plans are in the preliminary stage of design of course.

Barring unforseen developments we expect our survey party to stake out all lines in the field on Thursday and Friday of this week in sufficient detail for the securing of the soils information.

Please advise if further information is desired at this time.

Very truly yours,

ERDMAN, ANTHONY & HOSLEY

A.A. Mastriani

AAM:se

May 9, 1958

Mr. Henry Overman, Engineer of Bridges — C. H. Altvater

R. E. Litchiser, Engineer of Tests — For: N. E. Mason

Report of Bridge Foundation Investigation — File: 13-4-1
MOT-35-Woodman Drive over P. R. R. — Montgomery

Transmitted herewith are the results of the foundation investigation made at the above structure site as well as the logs of two soil profile auger borings made in the vicinity. The exploration consisted of eight drive rod penetration tests and two drive sample borings made between April 9 and 16, 1958.

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R. E. Litchiser
Engineer of Tests

For _____
N. E. Mason
Assistant Engineer

NEM:DJR:bjl
Encl.
cc: Erdman, Anthony, and Hosley (No encl.)
G. D. Ackerman Attn: E. B. Stokes (No encl.)
N. E. Mason (3)

STATE OF OHIO

Department of Highways

COLUMBUS 15

MONTGOMERY COUNTY
Sec. MOT-35-19.35
Woodman Drive over Prop.
USR 35 and Penna. RR

MICHAEL V. DISALLE
GOVERNOR

E. S. PRESTON
DIRECTOR

May 2, 1962

Dodson, Kinney & Lindblom
5 East Long Street
Columbus 15, Ohio

Notify
Sec

File 13-4-1
Mot

COPY

Gentlemen:

We are enclosing one copy of the foundation investigation report for each of the above two structure sites.

Yours very truly,

D. H. Overman
Engineer of Bridges

Raymond A. Grover
Foundation Engineer

RAG:bwf
cc: R. E. Calvin

RECEIVED
STATE HIGHWAY
TESTING AND RESEARCH LABORATORY
MAY 1962

MOT-35-19.34 MOT-35-

WOODMAN DR. OVER PROP US35

EQUIVALENT STATIONING

Sta 1050+80.85 ℄ PROP US 35
Sta 19+73.03 ℄ WOODMAN DR

	Sta PROP US 35	Offset L	Offset R	Sta Woodman Drive	Offset L	Offset R	ELEV.
1	1050+06	-99'	-	20+89	-46'	-	889.1
3A	1050+30	-45'	-	20+31	-36'	-	890.5 892.0
4	1051+08	-57'	-	20+21	-	42'	887.7
4A	1051+35	-45'	-	20+02	-	64'	890.0
5	1050+35	-C.L.	-	19+86	-45'	-	891.3
7	1050+97	-	57'	19+14	-C.L.	-	896.9
8	1051+40	-	57'	19+02	42'	-	896.3
9	1050+65	-	90'	18+91	-	39'	900.4

	Sta Prop US 35	Offset L	Offset R	Sta Woodman Dr.	Offset L	Offset R	
2	1054+54	215'	-	21+87	-	31'	886.0
4	1051+08	48'	-	20+12	-	39'	889.5 887.0
5	1050+34	-C.L.	-	19+86	46'	-	891.3
8	1051+35	-	60'	19+01	-	35'	896.3

Woodson Dr over US R 55.

			TOP PILE		
1.	NW.	F. Abut.	904.6	889.9	
	NE.	F Abut.	904.6		
			FOOTING (Solid)		
3A		F Pier	887.0±	892.0	
4		F Pier	887.0±	887.7	
4A				890.0	
5		C Pier	886.0±	891.3	
		C Pier	886.0±		
7		R. Pier	887.0±	896.9	
8		R Pier	887.0±	896.3	
			TOP PILE		
9	SW	R. Abut.	903.4	900.4	
	SE	R Abut.	903.1		

CORE DRILL - Woodman DR over USR35

T.H. 5 - Center Pier Eg. 1050434-CL {87154
19+86-46'LT {87161

T.H. 4 - Ford Pier Eg. 1051+08-48'LT {87660
20+11-39'RT {87667

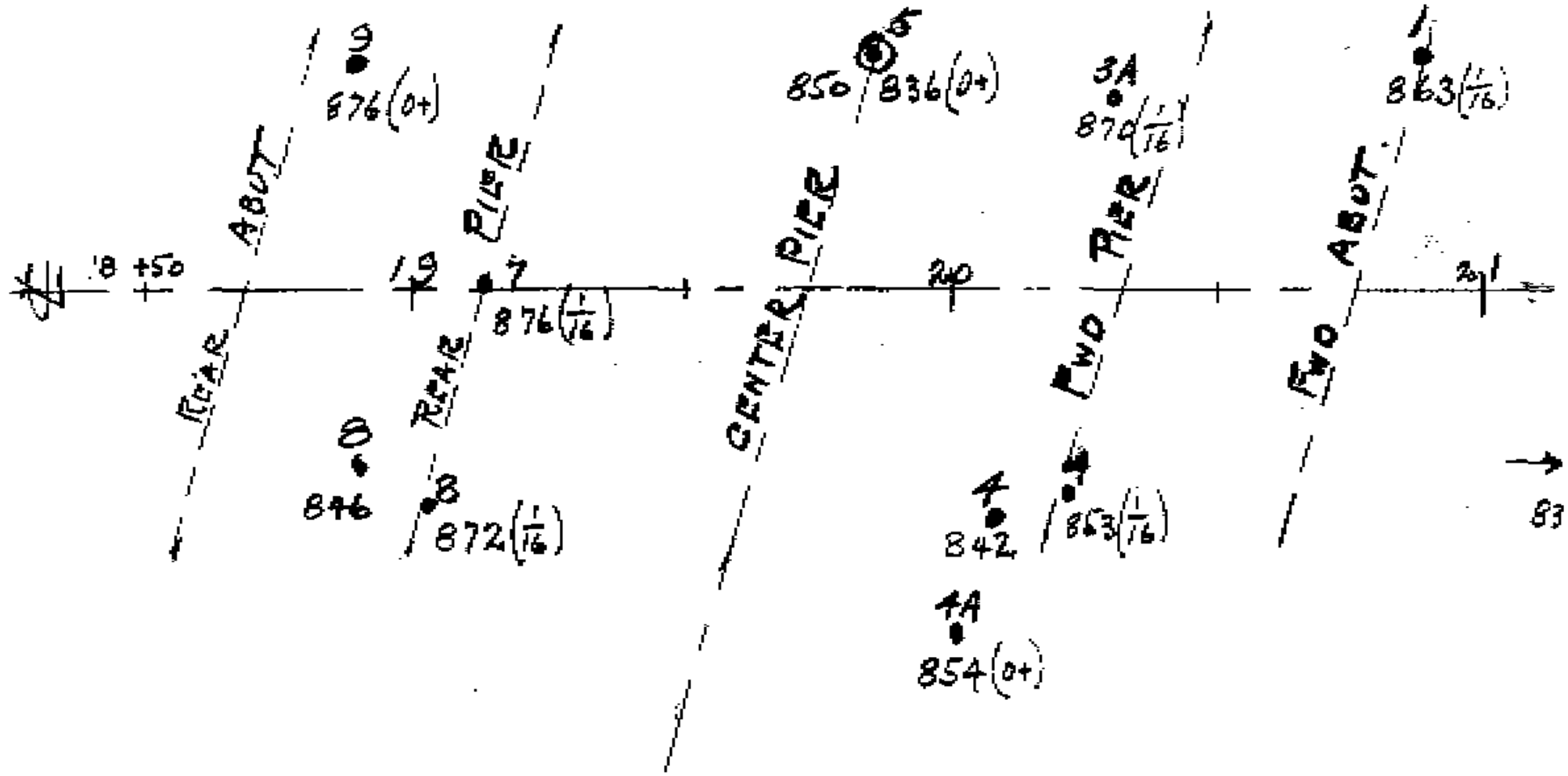
T.H. 8 - Rear Pier Eg. 1051+35-60'RT {87668
19+01-35'RT {87676

---- (Overhead) Eg. 1050+94-215'LT {88339
21+87-31'RT {88347

OK

MOT-35-

DODRMAN DR. OVER PROP USR 35



1101-35

DOORMAN DR OVER P.R.R.

DR		TOP OF PILE	GNDEL
1	SE R. Abut	907.5	886.0
2	SW R Abut	907.3	890.9
		FOOTING	
3	E R Pier	882.0	886.6
4	W R. Pier	882.0	888.0
5	E F. Pier	881.5	884.6
6	W F. Pier	881.5	886.7
		TOP PILE	
7	NE F Abut	906.6	882.7
8	NW F Abut	906.2	883.8

CORE DRILL -

		FOOTING	
3	E R. Pier	882.0	886.0
5	E F. Pier	881.5	887.0

WMS AUGER SOIL PROFILE

1050+00 - 40' LT

21+40 - 38' LT

21+65 - 8' LT

Mot 35 - 19.34
Gre 35 - 0.00

Woodman Drive over Route 35

This site lies on sloping ground draining toward the railroad to the north east. Material will be granular with possible silt lenses. The area between the Woodman Drive & and that of the Pennsylvania R.R. is poorly drained and may have unsatisfactory material present. Within the limits of the structure however borings will not encounter such material with the possible exception of the right forward abutment

Mot 35 - 19.34
Gre 35 - 0.00
Woodman Drive over Pennsylvania R.R.

This structure is practically a continuation of the above and conditions will be similar thereto. All sites are accessible to the drill. Property access will be necessary.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

MONTGOMERY COUNTY
MOT - 35 - 19.34
GREENE COUNTY
GRE - 35 - 0.00

BORING HOLE LOCATION DATA

HOLE NO.	Woodman ℄ Sta.	OFFSET DIST.	REMARKS
1	21+63.1	11' RT.	
2	21+70.[illegible]	35' LT.	Deep Borings
3	21+91.6	33' RT.	Deep Borings
4	22+24.0	11.5' LT.	
5	22+43.[illegible]	11' RT.	
6	22+52.5	35' LT.	Deep Borings
7	22+62.9	33' RT.	Deep Borings
8	22+81.3	11.5' LT.	

Legend: ⊕ Random Borings, ⊕ Deep Borings

CLEARANCE DIAGRAM
(Normal to ℄ of Track)

PROPOSED STRUCTURES

Type: Continuous reinf. concrete slab.
Spans: 34'-42.5'-34' c/c Brgs.
Roadway: W. Bridge 36'-0" f/f median & 4'-0" sidewalk
E. Bridge 36'-0" f/f median & 1'-0" safety curb
Load Frequency: CF 2000 (57)
Skew: 15°-32'-50"
Wearing Surface: 1" Monolithic Conc.
Approach Slab: AS-1-54 (25' long)
Alignment: Tangent

MAR 1958 RECEIVED

DS - CORE - 346

D.R. 1, 2, 3, 4, 5, 6, 7, 8.
DIAG. DRILL 3, 5, 7

WELL AUGER
SOIL PROFILE Sta. 18+50 + 60' - 150' LT. [Brg. 21+90 - 38' LT.] Sta. 21+65 - 8' LT.

ERDMAN, ANTHONY, & HOSLEY
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

Bridge No.
over Pennsylvania Railroad
Montgomery County Woodman Drive
Sta. 21+66.24
22+78.30

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED

Year: 1958	Job No. 08277	County	MONTGOMERY-GREENE
	Changes	Project Identification	MOT-GRE-35(19.34)(0.00)

FEP-49 4H-55 013860

File No. 146-026 Proj. No.

Begin Sta. 1019+00 0+00 End Sta. 1106+51.364 25+00 Length 2.14 Miles

	RECON	AUGER	CORE	DRIVE ROD	RESISTIVITY
By	J.S.M.	C.A.S., B.E.B.	E.F.M.		
Dates	3/10/58	3/31/58 - 4/2/58	3/27/58 - 4/10/58		
No. of Holes or Soundings		43	4		
Footage		552.0	168.0		
Samples Tested		180			

Drafting By	R.L.O., J.H.W., G.V.T.
Completion Date	4-24-58
Drafting Hours	
Topo Sheet	

☐ Samples Accounted For 5 of 5 - 4-M-29

Transmittal Date 5-2-58 No. of Tracings 5 Filed with year 1,2,3,4 of 5-4-M-52

Revisions Remarks FET-29

Refer to FET-52

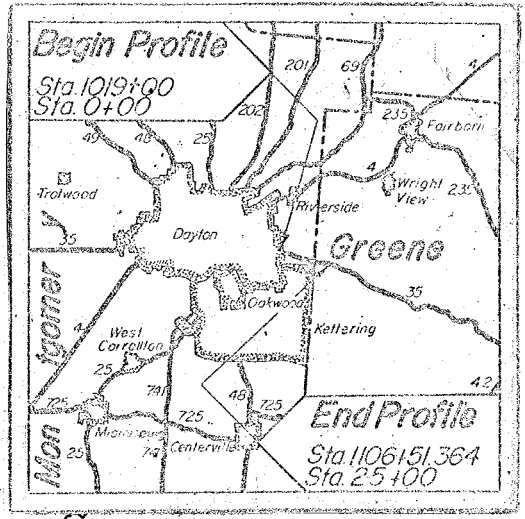
DO NOT WRITE IN THIS SPACE

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
2.14	43	552.0	180	4	168.0	—	—	—	—

* See Reverse Side

TOTAL SAMPLES					
Samples VOIDED	Auger	Drive	Samples USED	Auger	Drive

TOTAL MILEAGE		
Alignment	Stations From——To	Mileage



PLAC

013860

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

County, Rt. No. & Section MOT-GRE-35-19.34, 000

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
86645	1	1024+50 ℄	0-1.0	20	12	25	31	12	NP		11			A-4b	GRAY SANDY SILT
86646	2	" "	1'-4'	12	4	10	54	20	NP		23			A-4b	SANDY SILT
86647	3	" "	4-6	8	5	21	34	32	36	17	21			A-6b	SANDY CLAY
86648	4	" "	6'-11'	24	8	12	36	20	27	7	18			A-4b	SANDY GRAY SILT
86649	5	" "	11-17	26	10	17	28	19	19	6	9			A-4b	GRAY SANDY SILT
86650	6	" "	17-18'	2	2	19	62	15	NP		16			A-4b	SANDY SILT
86651	7	" "	18-26	0	1	3	61	35	20	5	17			A-4b	SILT
86652	8		26-27	0	1	25	68	6	NP		24			A-4b	SANDY SILT
86653	9	1026+18 ℄	1'-4'	0	6	19	49	26	29	11	23			A-6b	SANDY CLAY
86654	10	" "	4-10	12	3	12	39	34	37	16	28			A-6b	SANDY CLAY
86655	11	" "	10-13	17	10	17	31	25	23	9	13			A-4b	GRAY SANDY SILT
86656	12	" "	13-16'	67	2	5	20	6	NP		21			A-2	SANDY GRAVEL
86657	13	" "	16-18	5	2	4	67	22	NP		20			A-4b	SILT

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

2

County, Rt. No. & Section MOT-GRE-35-19.34, 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
86658	14	1026+18 ℄	18-24	42	6	11	25	16	24	8	24			A-4b	SANDY GRAV. SILT
86659	15	" "	24-27	22	18	39	19	2	N-P		16			A-3b	SILTY GRAV. SAND
86660	16	1021+50 "	0.5'-3'	15	9	13	45	18	27	8	18			A-4a	
86661	17	" "	3'-6'	7	6	31	36	20	28	8	17			A-4a	
86662	18	" "	6'-10	75	47	14	9	5	N-P		5			A-1-b	GRAVEL
86663	19	" "	10-15	71	15	9	4	1	N-P		5			A-1-a	GRAVEL
86664	20	1027+65 "	0.8'-3'	0	1	5	67	27	31	4	30			A-4b	SILT
86665	21	" "	3'-8'	13	6	11	47	23	34	13	24			A-6a	SANDY CLAY
86666	22	" "	8'-16	27	10	17	29	17	19	6	11			A-4a	SANDY BROWN SILT
86667	23	" "	16-23	5	2	18	65	10	N-P		21			A-4b	SANDY SILT
86668	24	" "	23-28	39	14	37	9	1	N-P		17			A-1-b	GRAVELLY SAND
86669	1-B	20+00 "	1'-5	9	6	12	51	22	25	8	20			A-4b	
86670	2-B	" "	5'-8	19	10	21	33	17	20	5	15			A-4	

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

3

County, Rt. No. & Section Mot-GRE-35 19.34, 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
86671	3-B	20+00 ℄	8-10	15	8	18	40	19	18	5	11			A-4a	
86672	4-B	17+20 25'Lt	0.3-4	11	4	9	44	32	37	16	23			A6b	
86673	5B	" "	4-8'	28	9	14	27	22	25	9	11			A-4a	
86674	6B	" "	8-12	22	11	16	36	15	23	9	13			A-4a	
86675	7B	" "	12-15	36	23	27	10	4	N-P		17			A-1b	GRAVEL
86676	8B	18+00 ℄	0.2-5	0	5	19	33	43	36	17	20			A6b	
86677	9B	" "	5-11'	30	24	30	12	4	N-P		6			A-1-b	GRAVEL
86678	10B	" "	11-16	3	29	58	9	1	N-P		5			A-3	
86679	11B	" "	16-20	6	36	46	9	3	N-P		5			A-3a	
86680	12B	8+80 "	0.2-5'	23	10	19	24	24	17	4	12			A-4a	
86681	13B	" "	5'-10'	14	9	18	40	19	20	6	11			A-4a	
86682	14B	" "	10-14	31	20	24	15	10	N-P		14			A-1-b	GRAVEL
86683	15B	" "	14-17	8	3	5	60	24	21	4	18			A-4b	

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

4

County, Rt. No. & Section Mon-GBE-35-19.34, 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
86684	16-B	6+00 ℄	0.2-3	30	8	14	27	21	23	8	14			A-4a	
86685	17-B	" "	3'-8'	17	8	11	42	22	19	6	9			A-4a	
86686	18-B	9+00 ℄	0.2'-3'	11	10	18	32	29	23	9	14			A-4a	
86687	19-B	" "	4'-8	40	11	15	21	13	21	7	17			A-2-4	GRAVEL
87357	25	1030+10 ℄	0.8-3'	0	1	6	57	36	38	15	24			A-6a	
87358	26	" "	3.0-10'	17	12	19	38	14	19	5	12			A-4a	
87359	27	" "	10'-12'	46	39	6	8	1	N-P		4			A-1-b	GRAVEL
87360	28	1032+40 "	0.8-3'	0	2	4	62	32	28	10	25			A-4b	
87361	29	" "	3'-6'	0	1	21	49	29	30	13	21			A-6a	
87362	30	" "	6'-8'	11	8	16	38	27	28	10	17			A-4a	
87363	31	1037+00 "	0.8'-3'	17	6	23	21	33	37	16	21			A-6b	
87364	32	" "	3'-5'	14	25	37	21	3	20	3	12			A-3a	
87365	33	" "	5'-8'	30	11	18	29	12	N-P		7			A-4a	

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

5

County, Rt. No. & Section Mot-GRE-35-19.34, 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87366	34	1040+00 ℄	0.8'-4'	0	1	4	58	37	41	20	23			A-7-6	
87367	35	" "	4'-8'	18	10	22	33	17	23	5	21			A-4a	
87368	36	" "	8'-10'	15	10	17	41	17	19	3	11			A-4a	
87369	37	1043+50 "	0.8'-3'	0	1	3	58	38	41	17	22			A-7-6	
87370	38	" "	3'-7'	7	8	17	43	25	27	12	21			A-6a	
87371	39	" "	7'-10'	50	22	6	18	4	20	3	6			A-1-b	GRAVEL
87372	40	" "	10'-14'	64	15	6	13	2	N-P		8			A-1-a	GRAVEL
87373	41	1046+75 "	0.6-3'	0	9	26	27	38	35	16	23			A-6b	
87374	42	" "	3'-7'	11	9	11	37	32	28	12	13			A-6a	
87375	43	" "	7'-10	39	45	7	5	4	N-P		5			A-1-b	GRAVEL
87376	44	" "	10-14'	56	28	6	9	1	N-P		3			A-1a	GRAVEL
87377	45	1050+60 150'⊥	0.8'-3'	19	8	13	33	27	28	11	17			A-6a	GRAV. SANDY CLAY
87378	46	" "	3'-9	22	16	19	29	14	20	7	11			A-4a	GRAV. SANDY SILT

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

6

County, Rt. No. & Section Mot-Gre-35-19.39 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87379	47	1050+00	9-10'	5	3	7	51	34	25	8	13			A-4b	silt
87380	48	21+65 8'Lt	0.8-4	0	6	17	34	43	39	20	11			A-6b	sandy clay
87381	49	21+65 8'Lt	4-10	12	10	18	41	19	20	4	15			A-4a	sandy silt
87382	50	" "	10-14	5	4	8	47	36	26	11	15			A-6b	silt & clay
87383	51	" "	14-18	9	4	9	47	31	25	11	11			A-6b	sandy clay
87384	52	" "	18-20	15	6	11	42	26	24	8	15			A-4b	sandy silt
87385	53	1050+00 ℄	0.8-4'	0	1	30	29	40	47	24	26			A-7b	sandy clay
87386	54	" "	4-7'	6	7	42	27	18	23	7	21			A-4b	sandy silt
87387	55	" "	7-10	17	11	26	30	16	18	5	10			A-4a	gral sandy silt
87388	56	1046+73 295 Rt	0.4-1.5	5	8	21	28	38	38	19	19			A-6b	
87389	57	" "	1.5-6'	9	11	20	40	20	18	4	10			A-4a	
87390	58	" "	6-14	17	8	17	40	18	17	3	11			A-4a	
87391	59	1050+90 ℄	0.8-2'	10	4	10	33	43	45	24	20			A-7b	sandy clay

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

7

County, Rt. No. & Section MOT-GRE-35-19.34/0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87392	60	1050+90 ℄	2'-10'	7	2	6	50	35	30	14	13			A-6	silt & clay
87393	61	" "	10'-15'	3	3	6	50	38	29	13	16			A-6	silt & clay
87394	62	" "	15'-20'	7	4	9	48	32	25	11	14			A-6	silt & clay
87395	63	17+30 "	06'-9'	14	7	13	39	27	25	8	14			A-4a	sandy silt
87396	64	1053+00 "	06'-2'	22	16	17	27	13	20	5	12			A-4a	
87397	65	" "	2'-11	8	6	12	48	26	24	7	15			A-4a	
87398	66	" "	11'-14	13	12	17	38	20	20	5	18			A-4a	0
87399	67	" "	14-17'	13	8	24	38	17	20	6	21			A-4a	0
87400	68	" "	17-20	7	4	28	57	4	N-P		17			A-4b	
87401	69	1057+00 "	06'-3'	3	4	15	39	39	43	20	22			A-7-6	
87402	70	" "	3'-6	42	11	13	21	13	25	8	17			A-2-4	GRAVEL
87403	71	" "	6'-12	26	36	17	15	6	15	2	5			A-1-b	GRAVEL
87402	72	1059+00 "	06'-2'	16	9	18	33	24	27	10	15			A-4a	

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

8

County, Rt. No. & Section MAT-GRE-35-19.34, 0.0D

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87405	73	1059+00 ℄	2'-6'	14	7	12	47	20	23	5	13			A-4a	
87406	74	" "	6'-8'	13	6	14	42	25	19	1	15			A-4a	
87407	75	1062+00 ℄	06'-3'	7	7	19	29	38	42	21	20			A-7-6	
87408	76	" "	3'-6'	14	5	16	34	31	29	12	20			A-6a	
87409	77	" "	6'-8'	12	6	12	36	34	27	11	13			A-6a	
87410	78	1066+00 "	08-5'	19	4	12	32	33	36	18	24			A-6b	
87411	79	" "	5-8'	18	8	16	33	25	22	8	12			A-4a	
87412	80	1078+50 ℄	08-2'	8	4	16	26	46	41	20	25			A-7-6	SANDY CLAY
87413	81	" "	2-10'	10	6	14	46	24	24	8	16			A-4a	SANDY SILT
87414	82	" "	10-14	12	6	18	46	18	18	2	13			A-4b	SANDY SILT
87415	83	" "	14-17'	5	0	1	64	30	23	4	17			A-4b	SILT
87416	84	" "	17-20'	8	4	9	44	35	26	6	16			A-4b	SANDY SILT
87417	85	1082+0 "	06-3'	5	3	11	49	32	43	23	21			A-7-6	CLAY

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

9

County, Rt. No. & Section Mo-Gre-35-1934.000

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87418	86	1082+00 ℄	3'-6'	4	3	11	42	40	33	14	22			A-6a	silt clay
87419	87	" "	6'-8	13	4	20	56	7	NP		15			A-4b	sandy silt
87420	88	1085+60 "	06-3'	8	6	19	25	42	47	26	23			A-7-6	
87421	89	" "	3'-6	62	26	3	5	4	NP		7			A-1-a	GRAVEL
87422	90	" "	6'-8'	24	57	11	7	1	NP		25			A-3a	0
87423	91	1090+00 "	06-3'	4	3	13	32	48	46	25	25			A-7-6	
87424	92	" "	3-7'	27	11	15	31	16	20	5	11			A-4a	
87425	93	" "	7'-14	40	40	12	8	0	NP		3			A-1-b	GRAVEL
87426	94	1089+00 "	06-4	11	15	19	32	23	27	9	18			A-4a	
87427	95	" "	4-8'	35	35	11	17	2	NP		5			A-1-b	GRAVEL
87428	96	" "	8'-12	75	1	4	9	11	NP		4			A-1-b	GRAVEL
87429	97	1092+60 "	08'-4'	9	4	15	31	41	44	23	28			A-7-6	
87430	98	" "	4'-15	15	8	15	38	24	24	8	13			A-4a	

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SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

10

County, Rt. No. & Section MOT-GRE-35-19.34/0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87431	99	1092+60 ℄	15'-20'	51	20	18	9	2	N-P		5			A-1-a	GRAVEL
87432	100	1087+15 "	0.8'-3'	37	10	11	19	23	42	19	20			A-7-6	
87433	101	" "	3'-6'	13	54	18	13	2	N-P		6			A-1-b	GRAVEL
87434	102	" "	6'-11	43	32	19	5	1	N-P		4			A-1-b	GRAVEL
87435	103	1093+50 ℄	0.6'-3'	5	5	18	30	42	44	24	25			A-7-6	
87436	104	" "	3'-8'	10	5	13	43	29	28	13	15			A-6a	
87437	105	" "	8'-18	12	6	15	41	26	25	9	14			A-4a	
87438	106	" "	18-20	10	9	20	51	10	N-P		14			A-4a	
87439	107	1096+50 35RT	0.6'-2'	7	4	15	29	45	44	26	26			A-7-6	
87440	108	" "	2'-6'	28	7	14	32	19	25	7	11			A-4a	
87441	109	" "	6-10	47	5	10	23	15	22	5	10			A-4a	
87442	110	" "	10-20	6	4	13	44	33	26	11	17			A-6a	
87443	111	1100+50 "	0.6'-3'	6	5	18	30	41	42	20	24			A-7-6	

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SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

11

County, Rt. No. & Section Mot-GRE-35-19.39,000

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87444	112	1100+50 ℄	3'-6'	28	5	20	26	21	34	16	25			A-6b	
87445	113	" "	6'-8'	15	3	8	39	35	41	19	28			A-7-6	
87446	114	1109+70 "	0-2	14	7	15	35	29	23	8	15			A-4a	
87447	115	" "	2'-6'	16	10	17	32	25	22	6	14			A-4a	
87448	116	" "	6'-8	10	3	12	36	39	41	19	29			A-7-6	
87449	117	1105+50 "	0-2'	18	10	18	34	20	20	6	13			A-4a	
87450	118	" "	2'-9	38	7	12	26	17	24	8	14			A-4a	
87451	119	" "	9'-10	27	11	31	22	9	15	5	14			A-2-4	GRAVEL
87452	120	1076+50 ℄	0-5'	7	3	42	6	42	44	26	25			A-7-6	
87453	121	" "	5-6'	4	2	8	54	32	31	12	29			A-6a	⊙
87454	122	1074+50 "	0-3'	5	2	7	51	35	43	22	29			A-7-6	
87455	123	" "	3'-45	37	6	14	27	16	24	9	21			A-4a	⊙
87456	124	1072+0 "	0-2'	10	3	12	33	42	43	21	27			A-7-6	

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

12

County, Rt. No. & Section Mot-GRE-35-19.39, 000

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
87457	125	1072 00 ℄	2'-3'	5	3	8	47	37	30	12	20			A6a	
87458	126	" "	3'-4'	22	6	12	33	27	30	12	26			A6a	
87459	127	1069+00 ℄	06'-2'	6	4	14	31	45	46	22	28			A7-6	
87460	128	" "	2'-3'	28	6	15	26	25	31	14	23			A6a	
87461	129	"	3'-4'	83	2	4	7	4	27	11	16			A2-6	GRAVEL

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

TOTAL 1

County, Rt. No. & Section Mot-GRE-35-19.39, 0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
		TOTAL - 5		304	104	42	40	10	N	P	28			A-1-a	
		AVE		61	21	8	8	2	N	P	6				
		TOTAL - 14		528	432	232	153	55	35	5	113			A-1-b	
		AVE.		38	31	16	11	4	② ~~10~~	~~0~~	8				
		TOTAL - 1		3	29	58	9	1	N	P	5			A-3	
		[illegible]													
		TOTAL - 4		66	136	133	56	9	20	3	58			A-3a	
		AVE		17	34	33	14	2	① ~~10~~	~~P~~	15				
		TOTAL - 4		176	35	64	84	41	61	20	69			A-2-4	
		AVE.		44	9	16	21	10	③ 20	5	17				
		TOTAL - 1		23	2	4	7	4	37	11	[illegible]			A-6	
		TOTAL - 52		975	461	885	1822	1067	1114	325	728			A-4a	
		AVE		19	9	17	35	20	㊼ 24	6	14				

SO-6

SUMMARY OF TESTS ON SOIL PROFILE SAMPLES

TOTAL 2

County, Rt. No. & Section MoT-GRE-35-1934,0.00

Lab. No. So.-	Field No.	Station	Depth in Feet	Mechanical Analysis Agg. %	C Sand %	F Sand %	Silt %	Clay %	Physical Charac. LL	PI	Water Cont. %	Density Opt.	Max. Dry Wt.	SHTL Class	Remarks
		TOTAL - 15		81	44	181	396	298	173 (7)	43	269			A-4b	
		AVE		5	3	12	60	20	25	3	18				
		TOTAL - 21		186	96	244	916	658	614	258	397			A-6a	
		AVE		9	4	12	44	31	29	12	19				
		TOTAL - 10		100	55	180	318	347	365	171	215			A-6b	
		AVE		10	5	18	32	35	37	17	22				
		TOTAL - 21		162	80	312	713	833	913	461	510			A-7-6	
		AVE		7	4	15	34	40	43	22	24			—	

June 23, 1960

W. J. Cremean
Engineer of Location & Design
State Office Building
65 South Front Street
Columbus 15, Ohio

File 13-3-1
MOT

Attn: Mr. H. E. Marshall
Re : Soil Profile
MOT-38-(17.89-19.34)

Dear Sir:

Reference is made to our letter of November 13, 1959 forwarding a copy of the Soil Profile for the above project.

Subsequent to the original submission certain corrections, additions and deletions were made necessitating revisions on the drawings.

We are forwarding herewith a copy of the revised Soil Profile.

Very truly yours,

VOGT, IVERS, SEAMAN & ASSOCIATES

By _____
R. C. Vogt

RCV/CAW/ec
Encl: Soil Profile
cc: Cremean (1 mylar, 1 print)
Ellis (1 encl.)
Litehiser (1 encl.)
Unger (1 encl.)
Stemley-2 (1 mylar, 1 print)

RECEIVED
STATE HIGHWAY
TESTING LABORATORY

February 18, 1960

Mr. John J. Stanley
Chief Engineer
Bureau of Expressways
Department of Service and Buildings
Dayton, Ohio

File-13-3-1
mat

Re: MOE-35-(17.89-19.34)

Dear Sir:

This is to inform you that approval has been received for the use of a rigid type pavement, consisting of 9" T-71 reinforced concrete pavement on 6" I-22 subbase, for this project.

On November 13, 1959, we received a copy of the subject project Soil Profile, which was returned to the Consultant for further refinement. It is our understanding that there is a question as to the final grade at the west end of the project, which has no doubt resulted in the Consultant deferring his submission of the revised Soil Profile until this problem is resolved. Upon receipt of the final Soil Profile, specific soils and subdrainage recommendations will be made if conditions indicate their necessity.

The proposed treatment of subbase and subgrade drainage as indicated on the typical section of July 2, 1959, is considered satisfactory. We note that the porous backfill of the I-4 pipe underdrains is shown extending up through the subbase to the bottom of the I-18 aggregate shoulder. In conformance with present design policy, the porous backfill should be terminated at the bottom of the I-22 subbase.

Very truly yours,

W. J. Creamer
Engineer of Location
and Design

WJC:EEM:LOT:mmm

cc: Lehman (2)
Burket
Mason
Marshall
Vogt, Ivers & Seeman
Fisher
Division 8
File

RECEIVED
STATE HIGHWAY
TESTING LABORATORY

May 7, 1958

R. R. Stultz, Engineer of Location & Design — R. K. Marshall

R. R. Litehiser, Engineer of Tests — For: R. E. Mason

Soil Profile SGT-JRK-35-(19.34)(0.00) — File: 13-3-1
Montgomery-Greene

Transmitted herewith is a print of sheet number one of the subject soil profile. Please use this sheet to replace the number one sheet of the set transmitted on May 2, 1958, which contained errors in the symbols shown in the legend. A corrected reproduced tracing is also being sent to the consultant in order that he may have a correct set to attach to the plans.

R. R. Litehiser
Engineer of Tests

FMK: [signature]
R. E. Mason
Assistant Engineer

RRM:DJ:tbjm
Encl.
cc: Hydrum, Anthony and Cooley Attn: A. A. Martrisani
G. D. Akerman (3)
R. K. Craig Attn: Shepard
Ohio State Geological Survey Attn: J. L. Forsyth
R. E. Mason (3)

May 2, 1958

R. E. Shultz, Engineer of Location & Design — S. E. Marshall

R. R. Litehiser, Engineer of Tests — For: N. E. Mason

Report of Soil Profile Investigation
MOT-GRE-35-(19.34)(0.00)

File: 13-3-1
Montgomery-Greene

Transmitted herewith is a print of the soil profile for the above project consisting of alignment and profile of proposed USR 35 and Woodman Drive.

Exploratory borings were generally made by means of truck mounted mechanical earth auger, hand auger being employed in areas of difficult access. Logs of borings for the structure investigations are also shown on the profile drawing sheets. These borings were made by means of rotary type core drill using a drive sampler to obtain "standard penetration" data at five foot depth intervals.

The test results for samples obtained by auger appear summarized by classification on drawing sheet one and itemized in log form on sheets numbered one, two and three. Drive sample soil test data appears adjacent to the boring log plotted on the profile drawing.

The project consists of a relocation of Route 35 just north of the existing USR 35 roadway, from the east corporation limit of Dayton to the completed relocation of Route 35 in Greene County, about 0.4 east of the County line. The alignment crosses a highland divide which is a portion of a dissected till plain overlying glacial outwash. The proposed grade indicates slight to moderate depths of cut and heights of fill. Borings indicate that subgrade materials consist of gravel and sand, sandy silt, and silt in the A-1a, A-1b and A-4 classifications.

Embankment foundation materials consist of clays and silt clays overlying sand and gravel. It is noted that wet silt was encountered at surface at station 1027+55 and 1032+80. Deeper wet foundation soils were found to occur at station 1024+00, 1074+50, 1076+50 and 1079+10.

The reproduced tracing is being sent to the consultant to be attached to the plans.

R. R. Litehiser
Engineer of Tests

For _____
N. E. Mason
Assistant Engineer

NEM:DJR:bjl
Encl.

cc: Erdman, Anthony and Hoeley Attn: A. A. Mastriani
R. E. Shultz Attn: O. W. Grumbeyer (No encl.)
G. D. Ackerman (3)
Ohio State Geological Survey Attn: J. L. Forsyth
N. E. Mason (3)
H. E. Craig Attn: Shepard

June 2, 1958

Erdman, Anthony & Hosley
22 South Young Street
Columbus, Ohio

File 12-3-1
Green

Attention: A. A. Mastriani

RE: GRE-35-0.00, MOT-35-19.34

Dear Mr. Mastriani:

Reference is made to the Soil Profile for the subject project transmitted by letter of May 7, 1958.

Approval has been obtained for the use of 9 inch T-71 pavement on 6 inch uniform depth of subbase as shown on your typical section drawings. It is noted that clean sand and gravel will apparently be encountered in cuts between the following limits:

Station	to	Station
1041/50	-	1049/00
1055/00	-	1058/00
1086/00	-	1092/00

A note should be placed on the plans listing these Stations and providing for the non-performance of the subbase and I-4 drains if granular material is encountered as anticipated.

Deep I-4 drains should be used in all cut areas except those noted above and shallow drains, flowline 3.5 below the pavement edge, should be used in all remaining areas of cut and fill. Drains at the outside edge of each pair of lanes as shown on your typicals are considered sufficient.

Very truly yours,

R. E. Shultz
Engineer of Location and Design

REE:HEM:mwa
cc:
Gruebmeyer
Marshall
Mason
Fisher
Ackerman
Gamble
File

VOGT, IVERS, SEAMAN
AND ASSOCIATES
ENGINEERS — ARCHITECTS

ASSOCIATES
INDIA BOYER, ARCHITECT
W. R. ECKHOFF, MECH. ENGR.

CINCINNATI 2, OHIO
34 WEST SIXTH STREET
MAIN 1-4425

November 13, 1959

Mr. R. R. Litehiser
State Highway Testing Laboratory
155 West Woodruff Avenue
Columbus 10, Ohio

Attn: Mr. N. E. Mason
Re: Soil Profile
MOT-35-(17.89-19.34)

Dear Sir:

Forwarded herewith is a copy of the above referenced soil profile.

Very truly yours,

VOGT, IVERS, SEAMAN & ASSOCIATES

By _____
W. J. Ivers

WJI/CAW/mv
Encl: 1 copy Soil Profile (Print)

NOV 1959

CHICAGO 6, ILL.
20 NORTH WACKER DR.
CENTRAL 6-9582

CHARLESTON 1, W. VA.
1033 QUARRIER ST.
DICKENS 6-0211

SAN ANTONIO 9, TEX.
127 AIRPORT BLVD.
TAYLOR 6-8681

WASHINGTON 6, D. C.
1025 CONNECTICUT AVE., N. W.
METROPOLITAN 8-4449

Mot 35-19.34
Gre 35-0.00

This project lies in an area of thin glacial drift overlying calcareous shales. It is on an upland divide the soils of which is composed of ground moraine over out wash material. This would indicate that fine sand in lenses is to be expected and that generally the soil profile will be 5 to 10 feet of sandy silt and clay overlying A-1 gravel sand and silt with pockets of A-4 silt and A-7-6 clay. In other words granular lenses interbedded in glacial clay.

A nearby well called the Thomas well went 169 feet into glacial out wash, this means that the project lies very near the northern edge of an old buried valley now filled with gravel and sand lenses overlain by clay till. From its position on the upland however it is doubtfull if this old valley will be encountered in subsurface borings near center line.

SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00

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

1/5

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 148 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	61	21	8	8	2	NP	NP	6	5
Gravel with sand	A-1-b(0)	A-1-b	38	31	16	11	4	NP	NP	8	14
Fine sand	A-3(0)	A-3	3	29	58	9	1	NP	NP	5	1
Coarse and fine sand	——	A-3a	17	34	33	14	2	NP	NP	15	4
Gravel with sand and silt	A-2-4(0)	A-2-4	44	9	16	21	10	20	5	17	4
Gravel with sand, silt, and clay	A-2-6(0)	A-2-6	83	2	4	7	4	27	11	16	1
Sandy silt	A-4(4)	A-4a	19	9	17	35	20	24	6	14	52
Silt	A-4(8)	A-4b	5	3	12	60	20	25	3	18	15
Silt and clay	A-6(9)	A-6a	9	4	12	44	31	29	12	19	21
Silty clay	A-6(9)	A-6b	10	5	18	32	35	37	17	22	10
Clay	A-7-6(13)	A-7-6	7	4	15	34	40	43	22	24	21

Sod & top soil = X' = Approx. depth

Berm material W—Free water

Auger boring - plan view

Core boring - plan view

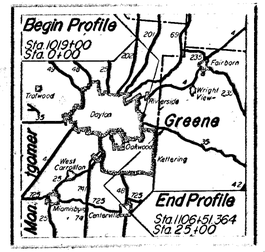
Auger boring plotted to vertical scale only.

● Water content nearly equal to or greater than liquid limit.

Samples Tested
Lab. Nos. Sa. 86645-86687 incl.
87162-87184 incl.
87357-87461 incl.
87668-87676 incl.

Number of blows for "Standard Penetration" test. X'=number of blows for first 6 inches - Y= number of blows for second 6 inches.

Note: Figures beside borings indicate water content in per cent.



LOCATION MAP

Recon - J.S.M. - Mar. 10, 1957
Auger - C.A.S., B.E.B. - April 2, 1958
Core - E.F.M. - April 10, 1958
Drafting - R.L.O., J.H.W., G.V.T. - April 28, 1958

SUMMARY OF SOIL TEST DATA:

Note: NP shown in liquid limit and plasticity index columns indicates that the material is non-plastic.

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1021+50 CL	0.5-3.5	15	9	13	45	18	27	8	18	A-4a
	3.0-6.0	7	6	31	36	20	28	8	17.4	A-4a
	6.0-10.0	25	47	14	9	5	NP	NP	5	A-1-b
	10.0-15.0	71	15	9	4	1	NP	NP	5	A-1-a
1024+50 CL	0.0-1.0	20	12	25	31	12	NP	NP	11	A-4a
	1.0-4.0	12	4	10	54	20	NP	NP	23	A-4b
	4.0-6.0	8	5	21	34	32	36	17	21	A-6b
	6.0-11.0	24	8	12	36	20	27	7	18	A-4a
	11.0-17.0	26	10	17	28	19	19	6	9	A-4a
	17.0-18.0	2	2	19	62	15	NP	NP	16	A-4b
	18.0-26.0	0	1	7	61	31	20	5	17	A-4b
	26.0-27.0	0	1	25	68	6	NP	NP	24	A-4b
1026+12 CL	1.0-4.0	0	6	19	49	26	29	11	23	A-6a
	4.0-10.0	12	3	12	39	34	37	16	28	A-6a
	10.0-13.0	17	10	17	31	25	23	9	13	A-4a
	13.0-16.0	67	2	5	20	6	NP	NP	21	A-2-4
	16.0-18.0	5	4	14	67	22	NP	NP	20	A-4b
	18.0-24.0	42	6	11	25	16	24	8	24	A-4a
	24.0-27.0	22	18	39	19	2	NP	NP	16	A-3a
1027+55 CL	0.3-3.0	0	1	5	67	27	31	4	30	A-4b
	3.0-8.0	13	6	11	47	23	34	13	24	A-6a
	8.0-16.0	27	10	17	29	17	19	6	11	A-4a
	16.0-23.0	5	2	18	65	10	NP	NP	21	A-4b
	23.0-28.0	39	14	37	9	1	NP	NP	17	A-1-b
1030+10 CL	0.8-3.0	0	1	6	57	36	38	15	24	A-6a
	3.0-10.0	17	12	19	38	14	19	5	12	A-4a
	10.0-12.0	46	39	6	8	1	NP	NP	4	A-1-b
1032+90 CL	0.9-3.0	0	2	4	62	32	28	10	25	A-4b
	3.0-6.0	0	1	21	49	29	30	13	21	A-6a
	6.0-8.0	11	8	16	38	27	28	10	17	A-4a
1037+00 CL	0.8-3.0	17	6	23	21	33	37	16	21	A-6b
	3.0-5.0	14	25	37	21	3	20	3	12	A-3a
	5.0-8.0	30	11	18	29	12	NP	NP	7	A-4a
1040+00 CL	0.8-4.0	0	1	4	58	37	41	20	23	A-7-6
	4.0-8.0	18	10	22	33	17	23	5	21	A-4a
	8.0-10.0	15	10	17	41	17	19	3	11	A-4a
1043+50 CL	0.8-3.0	0	1	3	58	38	41	17	22	A-7-6
	3.0-7.0	7	8	17	43	25	27	12	21	A-6a
	7.0-10.0	50	22	6	18	4	20	3	6	A-1-b
	10.0-14.0	64	15	6	13	2	NP	NP	8	A-1-a
1046+75 CL	0.6-3.0	0	9	26	27	38	35	16	23	A-6b
	3.0-7.0	11	9	11	37	32	28	12	13	A-6a
	7.0-10.0	39	45	7	5	4	NP	NP	5	A-1-b
	10.0-14.0	56	28	6	9	1	NP	NP	3	A-1-a
1046+75 295' RT	0.4-1.5	5	8	21	28	38	38	19	19	A-6b
	1.5-6.0	9	11	20	40	20	19	4	10	A-4a
	6.0-14.0	17	8	17	40	18	17	3	11	A-4a
1050+00 CL	0.8-4.0	0	1	30	29	40	47	24	26	A-7-6
	4.0-7.0	6	7	42	27	18	23	7	21	A-4a
	7.0-10.0	17	11	26	30	16	18	5	10	A-4a

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1050+00 150' LT	0.8-3.0	19	8	13	33	27	28	11	17	A-6a
	3.0-9.0	22	16	19	29	14	20	7	11	A-4a
	9.0-10.0	5	3	7	51	34	28	8	13	A-4b
1050+90 CL	0.8-2.0	10	4	10	33	43	45	24	20	A-7-6
	2.0-10.0	7	2	6	50	35	30	14	13	A-6a
	10.0-15.0	3	3	6	50	38	29	13	16	A-6a
	15.0-20.0	7	4	9	48	32	25	11	14	A-6a
1053+00 CL	0.6-2.0	27	16	17	27	13	20	5	12	A-4a
	2.0-11.0	8	6	12	48	26	24	7	15	A-4a
	11.0-14.0	13	12	17	38	20	20	5	13	A-4a
	14.0-17.0	13	8	24	38	17	20	6	21	A-4a
	17.0-20.0	7	4	23	57	4	NP	NP	17	A-4b
1057+00 CL	0.6-3.0	3	4	15	39	39	43	20	22	A-7-6
	3.0-6.0	42	11	13	21	13	25	9	17	A-2-4
	6.0-12.0	26	36	17	15	6	15	2	5	A-1-b
1059+00 CL	0.6-2.0	16	9	19	33	24	27	10	15	A-4a
	2.0-6.0	14	7	12	47	20	23	5	13	A-4a
	6.0-8.0	13	6	14	42	25	19	1	15	A-4a
1062+00 CL	0.6-3.0	7	7	19	29	38	42	21	20	A-7-6
	3.0-6.0	14	5	16	34	31	29	12	20	A-6a
	6.0-8.0	12	6	12	36	34	27	11	13	A-6a
1066+00 CL	0.8-5.0	19	4	12	32	33	36	18	24	A-6b
	5.0-8.0	18	8	16	33	25	22	8	12	A-4a
1069+00 CL	0.6-2.0	6	4	14	31	45	46	22	28	A-7-6
	2.0-3.0	28	6	15	26	25	31	14	23	A-6a
	3.0-4.0	83	2	4	7	4	27	11	16	A-2-6
1072+00 CL	0.6-2.0	10	3	12	33	42	43	21	27	A-7-6
	2.0-3.0	5	3	8	47	37	30	12	20	A-6a
	3.0-4.0	22	6	12	33	27	30	12	26	A-6a
1074+50 CL	0.6-3.0	5	2	7	51	35	43	22	29	A-7-6
	3.0-4.5	37	6	14	27	16	24	9	21	A-4a
1076+50 CL	0.6-5.0	7	3	4	[illegible]	43	44	26	25	A-7-6
	5.0-6.0	4	2	8	54	32	31	12	29	A-6a
1078+50 CL	0.8-2.0	8	4	18	26	44	43	20	25	A-7-6
	2.0-10.0	10	6	14	46	24	24	3	16	A-4a
	10.0-14.0	12	6	18	46	18	18	2	13	A-4a
	14.0-17.0	5	0	1	64	30	23	4	17	A-4b
	17.0-20.0	8	4	9	44	35	26	6	16	A-4a
1082+00 CL	0.6-3.0	5	3	11	49	32	43	23	21	A-7-6
	3.0-6.0	4	3	11	42	40	33	14	22	A-6a
	6.0-8.0	13	4	20	56	7	NP	NP	15	A-4b
1085+60 CL	0.6-3.0	8	6	19	25	42	47	26	23	A-7-6
	3.0-6.0	62	26	3	5	4	NP	NP	7	A-1-a
	6.0-8.0	24	57	11	7	1	NP	NP	25	A-3a
1087+15 CL	0.8-3.0	37	10	11	19	23	42	19	20	A-7-6
	3.0-6.0	13	54	18	13	2	NP	NP	6	A-1-b
	6.0-11.0	43	32	19	5	1	NP	NP	4	A-1-b
1089+00 CL	0.6-4.0	11	15	19	32	23	27	9	13	A-4a
	4.0-9.0	39	35	11	11	2	NP	NP	5	A-1-b
	9.0-14.0	73	1	4	9	13	NP	NP	4	A-1-b

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1090+00 CL	0.6-3.0	4	3	13	32	48	46	25	25	A-7-6
	3.0-7.0	27	11	15	31	16	20	5	11	A-4a
	7.0-14.0	40	40	12	8	0	NP	NP	3	A-1-b
1092+60 CL	0.8-4.0	9	4	15	31	41	44	23	22	A-7-6
	4.0-15.0	15	8	15	38	24	24	8	13	A-4a
	15.0-20.0	51	20	18	9	2	NP	NP	5	A-1-a
1093+50 CL	0.6-3.0	5	5	18	30	42	44	24	25	A-7-6
	3.0-8.0	10	5	13	43	39	38	13	19	A-6a
	8.0-18.0	12	6	15	41	26	25	9	14	A-4a
	18.0-20.0	10	9	20	51	10	NP	NP	14	A-4b
1096+50 35' RT	0.6-2.0	7	4	15	29	45	49	26	26	A-7-6
	2.0-6.0	28	7	14	32	19	25	7	11	A-4a
	6.0-10.0	47	5	10	23	15	22	5	12	A-4a
	10.0-20.0	6	4	13	44	33	26	11	17	A-6a
1100+50 CL	0.6-3.0	6	5	18	30	41	42	20	24	A-7-6
	3.0-6.0	28	5	20	21	34	16	5	25	A-6b
	6.0-8.0	15	3	8	39	35	41	19	28	A-7-6
1104+00 CL	0.6-2.0	14	7	15	35	29	23	8	15	A-4a
	2.0-6.0	16	10	17	32	25	22	6	14	A-4a
	6.0-8.0	10	3	12	36	39	41	19	29	A-7-6
1105+50 CL	0.6-2.0	18	10	13	34	20	20	6	13	A-4a
	2.0-9.0	38	7	12	26	17	24	8	14	A-4a
	9.0-10.0	27	11	31	22	9	15	5	14	A-2-4
2+00 CL	0.2-4.0	11	10	18	32	29	23	9	14	A-4a
	4.0-8.0	40	11	15	21	13	21	7	17	A-2-4
6+00 CL	0.2-3.0	30	8	14	27	21	23	8	14	A-4a
	3.0-8.0	17	8	11	42	22	19	6	9	A-4a
8+80 CL	0.2-5.0	23	10	19	24	24	17	4	12	A-4a
	5.0-10.0	14	9	18	40	19	20	6	11	A-4a
	10.0-14.0	31	20	24	15	10	NP	NP	14	A-1-b
	14.0-17.0	8	3	5	60	24	21	4	18	A-4b
13+00 CL	0.2-5.0	0	5	19	33	43	36	17	20	A-6b
	5.0-11.0	30	24	30	12	4	NP	NP	6	A-1-b
	11.0-16.0	3	29	58	9	1	NP	NP	5	A-3
	16.0-20.0	6	36	46	9	3	NP	NP	5	A-3a
17+20 25' LT	0.3-4.0	11	4	9	44	32	37	16	23	A-6b
	4.0-8.0	28	9	14	27	22	25	9	11	A-4a
	8.0-12.0	22	11	14	36	15	23	9	13	A-4a
	12.0-15.0	36	23	27	10	4	NP	NP	17	A-1-b
20+00 CL	1.0-5.0	9	6	12	51	22	25	8	20	A-4b
	5.0-8.0	19	10	21	33	17	20	5	15	A-4a
	8.0-10.0	15	8	18	40	19	18	5	11	A-4a
				Woodman Dr.						
17+30 CL	0.6-4.0	14	7	13	39	27	25	8	14	A-4a
21+65 8' LT	0.8-4.0	0	6	17	34	43	39	20	11	A-6b
	4.0-10.0	12	10	18	41	19	20	4	15	A-4a
	10.0-14.0	5	4	8	47	36	26	11	15	A-6a
	14.0-18.0	9	4	9	47	31	25	11	11	A-6a
	18.0-20.0	15	6	11	42	26	24	8	15	A-4a

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 148 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	61	21	8	8	2	NP	NP	6	5
Gravel with sand	A-1-b(0)	A-1-b	38	31	16	11	4	NP	NP	8	14
Fine sand	A-3(0)	A-3	3	29	58	9	1	NP	NP	5	1
Coarse and fine sand	——	A-3a	17	34	33	14	2	NP	NP	15	4
Gravel with sand and silt	A-2-4(0)	A-2-4	44	9	16	21	10	20	5	17	4
Gravel with sand, silt, and clay	A-2-6(0)	A-2-6	83	2	4	7	4	27	11	16	1
Sandy silt	A-4(4)	A-4a	19	9	17	35	20	24	6	14	52
Silt	A-4(8)	A-4b	5	3	12	60	20	25	3	18	15
Silt and clay	A-6(9)	A-6a	9	4	12	44	31	29	12	19	21
Silty clay	A-6(9)	A-6b	10	5	18	32	35	37	17	22	10
Clay	A-7-6(13)	A-7-6	7	4	15	34	40	43	22	24	21

Sod & top soil = X' = Approx. depth

Berm material W—Free water

Auger boring - plan view

Core boring - plan view

Auger boring plotted to vertical scale only.

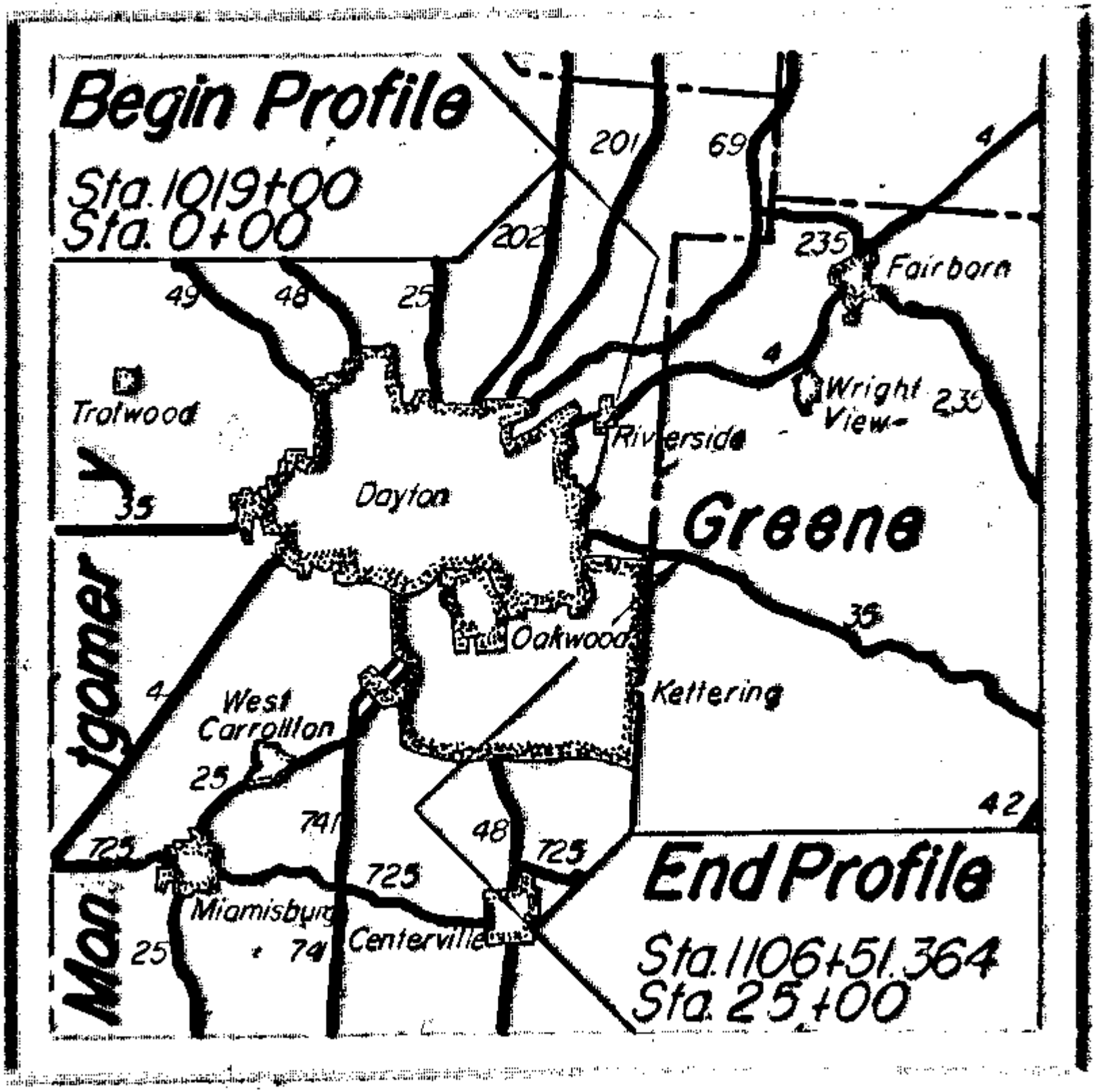
● Water content nearly equal to or greater than liquid limit.

Samples Tested
Lab. Nos. So. 86645-86687 incl.
87162-87184 incl.
87357-87461 incl.
87668-87676 incl.

X/Y Number of blows for "Standard Penetration" test. X = number of blows for first 6 inches - Y = number of blows for second 6 inches.

Note: Figures beside borings indicate water content in per cent.

SUMMARY OF SOIL TEST DATA:



LOCATION MAP

Note: Figures beside borings indicate water content in per cent.

SUMMARY OF SOIL TEST DATA:

Note: NP shown in liquid limit and plasticity index columns indicates that the material is non-plastic.

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1021+50 CL	0.5-3.0	15	9	13	45	18	27	8	18	A-4a
	3.0-6.0	7	6	31	36	20	28	8	17	A-4a
	6.0-10.0	25	47	14	9	5	NP	NP	5	A-1-b
	10.0-15.0	71	15	9	4	1	NP	NP	5	A-1-a
1024+50 CL	0.0-1.0	20	12	25	31	12	NP	NP	11	A-4a
	1.0-4.0	12	4	10	54	20	NP	NP	23	A-4b
	4.0-6.0	8	5	21	34	32	36	17	21	A-6b
	6.0-11.0	24	8	12	36	20	27	7	18	A-4a
	11.0-17.0	26	10	17	28	19	19	6	9	A-4a
	17.0-18.0	2	2	19	62	15	NP	NP	16	A-4b
	18.0-26.0	0	1	3	61	35	20	5	17	A-4b
	26.0-27.0	0	1	25	68	6	NP	NP	24	A-4b
1026+12 CL	1.0-4.0	0	6	19	49	26	29	11	23	A-6a
	4.0-10.0	12	3	12	39	34	37	16	28	A-6b
	10.0-13.0	17	10	17	31	25	23	9	13	A-4a
	13.0-16.0	67	2	5	20	6	NP	NP	21	A-2-4
	16.0-18.0	5	2	4	67	22	NP	NP	20	A-4b
	18.0-24.0	42	6	11	25	16	24	8	24	A-4a
	24.0-27.0	22	18	39	19	2	NP	NP	16	A-3a
1027+55 CL	0.8-3.0	0	1	5	67	27	31	4	30	A-4b
	3.0-8.0	13	6	11	47	23	34	13	24	A-6a
	8.0-16.0	27	10	17	29	17	19	6	11	A-4a
	16.0-23.0	5	2	18	65	10	NP	NP	21	A-4b
	23.0-28.0	39	14	37	9	1	NP	NP	17	A-1-b
1030+10 CL	0.8-3.0	0	1	6	57	36	38	15	24	A-6a
	3.0-10.0	17	12	19	38	14	19	5	12	A-4a
	10.0-12.0	46	39	6	8	1	NP	NP	4	A-1-b
1032+90 CL	0.9-3.0	0	2	4	62	32	28	10	25	A-4b
	3.0-6.0	0	1	21	49	29	30	13	21	A-6a
	6.0-8.0	11	8	16	38	27	28	10	17	A-4a
1037+00 CL	0.8-3.0	17	6	23	21	33	37	16	21	A-6b
	3.0-5.0	14	25	37	21	3	20	3	12	A-3a
	5.0-8.0	30	11	18	29	12	NP	NP	7	A-4a
1040+00 CL	0.8-4.0	0	1	4	58	37	41	20	23	A-7-6
	4.0-8.0	18	10	22	33	17	23	5	21	A-4a
	8.0-10.0	15	10	17	41	17	19	3	11	A-4a
1043+50 CL	0.8-3.0	0	1	3	58	38	41	17	22	A-7-6
	3.0-7.0	7	8	17	43	25	27	12	21	A-6a
	7.0-10.0	50	22	6	18	4	20	3	6	A-1-b
	10.0-14.0	64	15	6	13	2	NP	NP	8	A-1-a
1046+75 CL	0.6-3.0	0	9	26	27	38	35	16	23	A-6b
	3.0-7.0	11	9	11	37	32	28	12	13	A-6a
	7.0-10.0	39	45	7	5	4	NP	NP	5	A-1-b
	10.0-14.0	56	28	6	9	1	NP	NP	3	A-1-a
1046+75 295' RT	0.4-1.5	5	8	21	28	38	38	19	19	A-6b
	1.5-6.0	9	11	20	40	20	18	4	10	A-4a
	6.0-14.0	17	8	17	40	18	17	3	11	A-4a
1050+00 CL	0.8-4.0	0	1	30	29	40	47	24	26	A-7-6
	4.0-7.0	6	7	42	27	18	23	7	21	A-4a
	7.0-10.0	17	11	26	30	16	18	5	10	A-4a
1050+00 150' LT	0.8-3.0	19	8	13	33	27	28	11	17	A-6a
	3.0-9.0	22	16	19	29	14	20	7	11	A-4a
	9.0-10.0	5	3	7	51	34	25	8	13	A-4b
1050+90 CL	0.8-2.0	10	4	10	33	43	45	24	20	A-7-6
	2.0-10.0	7	2	6	50	35	30	14	13	A-6a
	10.0-15.0	3	3	6	50	38	29	13	16	A-6a
	15.0-20.0	7	4	9	48	32	25	11	14	A-6a
1053+00 CL	0.6-2.0	27	16	17	27	13	20	5	12	A-4a
	2.0-11.0	8	6	12	48	26	24	7	15	A-4a
	11.0-14.0	13	12	17	38	20	20	5	18	A-4a
	14.0-17.0	13	8	24	38	17	20	6	21	A-4a
	17.0-20.0	7	4	28	57	4	NP	NP	17	A-4b
1057+00 CL	0.6-3.0	3	4	15	39	39	43	20	22	A-7-6
	3.0-6.0	42	11	13	21	13	25	8	17	A-2-4
	6.0-12.0	26	36	17	15	6	15	2	5	A-1-b
1059+00 CL	0.6-2.0	16	9	18	33	24	27	10	15	A-4a
	2.0-6.0	14	7	12	47	20	23	5	13	A-4a
	6.0-8.0	13	6	14	42	25	19	1	15	A-4a
1062+00 CL	0.6-3.0	7	7	19	29	38	42	21	20	A-7-6
	3.0-6.0	14	5	16	34	31	29	12	20	A-6a
	6.0-8.0	12	6	12	36	34	27	11	13	A-6a
1066+00 CL	0.8-5.0	19	4	12	32	33	36	18	24	A-6b
	5.0-8.0	18	8	16	33	25	22	8	12	A-4a
1069+00 CL	0.6-2.0	6	4	14	31	45	46	22	28	A-7-6
	2.0-3.0	28	6	15	26	25	31	14	23	A-6a
	3.0-4.0	83	2	4	7	4	27	11	16	A-2-6
1072+00 CL	0.6-2.0	10	3	12	33	42	43	21	27	A-7-6
	2.0-3.0	5	3	8	47	37	30	12	20	A-6a
	3.0-4.0	22	6	12	33	27	30	12	26	A-6a
1074+50 CL	0.6-3.0	5	2	7	51	35	43	22	29	A-7-6
	3.0-4.5	37	6	14	27	16	24	9	21	A-4a
1076+50 CL	0.6-5.0	7	3	42	6	42	44	26	25	A-7-6
	5.0-6.0	4	2	8	54	32	31	12	29	A-6a
1078+50 CL	0.8-2.0	8	4	18	26	46	41	20	25	A-7-6
	2.0-10.0	10	6	14	46	24	24	8	16	A-4a
	10.0-14.0	12	6	18	46	18	18	2	13	A-4a
	14.0-17.0	5	0	1	64	30	23	4	17	A-4b
	17.0-20.0	8	4	9	44	35	26	6	16	A-4a
1082+00 CL	0.6-3.0	5	3	11	49	32	43	23	21	A-7-6
	3.0-6.0	4	3	11	42	40	33	14	22	A-6a
	6.0-8.0	13	4	20	56	7	NP	NP	15	A-4b
1085+60 CL	0.6-3.0	8	6	19	25	42	47	26	23	A-7-6
	3.0-6.0	62	26	3	5	4	NP	NP	7	A-1-a
	6.0-8.0	24	57	11	7	1	NP	NP	25	A-3a
1087+15 CL	0.8-3.0	37	10	11	19	23	42	19	20	A-7-6
	3.0-6.0	13	54	18	13	2	NP	NP	6	A-1-b
	6.0-11.0	43	32	19	5	1	NP	NP	4	A-1-b
1089+00 CL	0.6-4.0	11	15	19	32	23	27	9	18	A-4a
	4.0-9.0	35	35	11	17	2	NP	NP	5	A-1-b
	9.0-12.0	73	1	4	9	13	NP	NP	4	A-1-b
1090+00 CL	0.6-3.0	4	3	13	32	48	46	25	25	A-7-6
	3.0-7.0	27	11	15	31	16	20	5	11	A-4a
	7.0-14.0	40	40	12	8	0	NP	NP	3	A-1-b
1092+60 CL	0.8-4.0	9	4	15	31	41	44	23	22	A-7-6
	4.0-15.0	15	8	15	38	24	24	8	13	A-4a
	15.0-20.0	51	20	18	9	2	NP	NP	5	A-1-a
1093+50 CL	0.6-3.0	5	5	18	30	42	44	24	25	A-7-6
	3.0-8.0	10	5	13	43	39	38	13	15	A-6a
	8.0-18.0	12	6	15	41	26	25	9	14	A-4a
	18.0-20.0	10-	9	20	51	10	NP	NP	14	A-4b
1096+50 35' RT	0.6-2.0	7	4	15	29	45	49	26	26	A-7-6
	2.0-6.0	28	7	14	32	19	25	7	11	A-4a
	6.0-10.0	47	5	10	23	15	22	5	13	A-4a
	10.0-20.0	6	4	13	44	33	26	11	17	A-6a
1100+50 CL	0.6-3.0	6	5	18	30	41	42	20	24	A-7-6
	3.0-6.0	28	5	20	26	21	34	16	25	A-6b
	6.0-8.0	15	3	8	39	35	41	19	28	A-7-6
1104+00 CL	0.6-2.0	14	7	15	35	29	23	8	15	A-4a
	2.0-6.0	16	10	17	32	25	22	6	14	A-4a
	6.0-8.0	10	3	12	36	39	41	19	29	A-7-6
1105+50 CL	0.6-2.0	18	10	18	34	20	20	6	13	A-4a
	2.0-9.0	38	7	12	26	17	24	8	14	A-4a
	9.0-10.0	27	11	31	22	9	15	5	14	A-2-4
2+00 CL	0.2-4.0	11	10	18	32	29	23	9	14	A-4a
	4.0-8.0	40	11	15	21	13	21	7	17	A-2-4
6+00 CL	0.2-3.0	30	8	14	27	21	23	8	14	A-4a
	3.0-8.0	17	8	11	42	22	19	6	9	A-4a
8+80 CL	0.2-5.0	23	10	19	24	24	17	4	12	A-4a
	5.0-10.0	14	9	18	40	19	20	6	11	A-4a
	10.0-14.0	31	20	24	15	10	NP	NP	14	A-1-b
	14.0-17.0	8	3	5	60	24	21	4	18	A-4b
13+00 CL	0.2-5.0	0	5	19	33	43	36	17	20	A-6b
	5.0-11.0	30	24	30	12	4	NP	NP	6	A-1-b
	11.0-16.0	3	29	58	9	1	NP	NP	5	A-3
	16.0-20.0	6	36	46	9	3	NP	NP	5	A-3a
17+20 25' LT	0.3-4.0	11	4	9	44	32	37	16	23	A-6b
	4.0-8.0	28	9	14	27	22	25	9	11	A-4a
	8.0-12.0	22	11	16	36	15	23	9	13	A-4a
	12.0-15.0	36	23	27	10	4	NP	NP	17	A-1-b
20+00 CL	1.0-5.0	9	6	12	51	22	25	8	20	A-4b
	5.0-8.0	19	10	21	33	17	20	5	15	A-4a
	8.0-10.0	15	8	18	40	19	18	5	11	A-4a
				Woodman Dr.						
17+30 CL	0.6-4.0	14	7	13	39	27	25	8	14	A-4a
21+65 8' LT	0.8-4.0	0	6	17	34	43	39	20	11	A-6b
	4.0-10.0	12	10	18	41	19	20	4	15	A-4a
	10.0-14.0	5	4	8	47	36	26	11	15	A-6a
	14.0-18.0	9	4	9	47	31	25	11	11	A-6a
	18.0-20.0	15	6	11	42	26	24	8	15	A-4a

SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00

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

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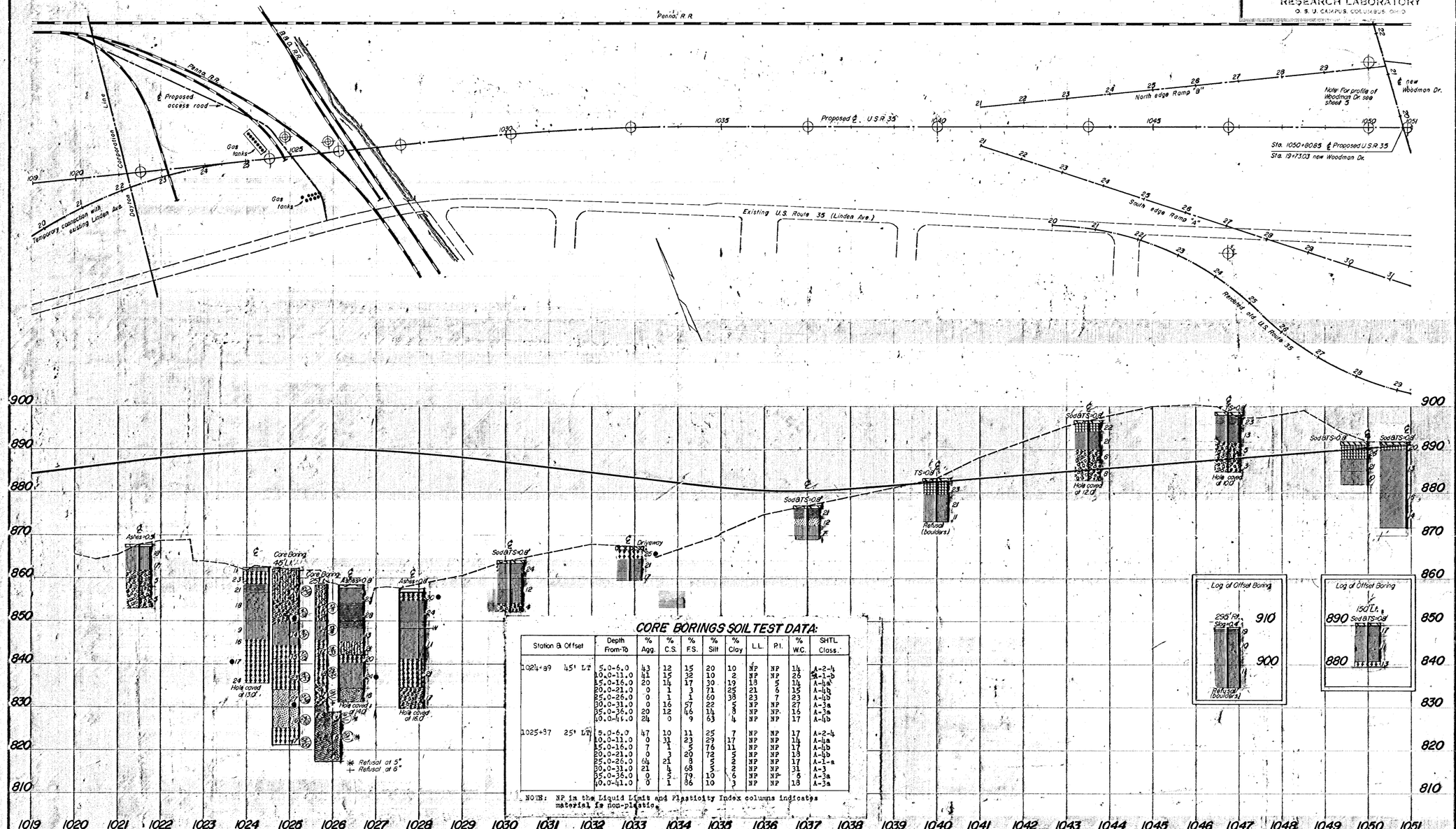

CORE BORINGS SOIL TEST DATA:

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1024+89 45' LT	5.0-6.0	43	12	15	20	10	NP	NP	14	A-2-4
	10.0-11.0	41	15	32	10	2	NP	NP	26	A-1-b
	15.0-16.0	20	14	17	30	19	18	5	14	A-4a
	20.0-21.0	0	1	3	71	25	21	6	15	A-4b
	25.0-26.0	0	1	1	60	38	23	7	23	A-4b
	30.0-31.0	0	16	57	22	5	NP	NP	27	A-3a
	35.0-36.0	20	12	46	14	8	NP	NP	16	A-3a
	40.0-41.0	24	0	9	63	4	NP	NP	17	A-4b
1025+87 25' LT	5.0-6.0	47	10	11	25	7	NP	NP	17	A-2-4
	10.0-11.0	0	31	23	29	17	NP	NP	14	A-4a
	15.0-16.0	7	1	5	76	11	NP	NP	17	A-4b
	20.0-21.0	0	3	20	72	5	NP	NP	18	A-4b
	25.0-26.0	64	21	8	5	2	NP	NP	17	A-1-a
	30.0-31.0	21	4	68	5	2	NP	NP	31	A-3
	35.0-36.0	0	5	79	10	6	NP	NP	6	A-3a
	40.0-41.0	0	1	86	10	3	NP	NP	18	A-3a

NOTE: NP in the Liquid Limit and Plasticity Index columns indicates material is non-plastic.

SOIL PROFILE

MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00

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

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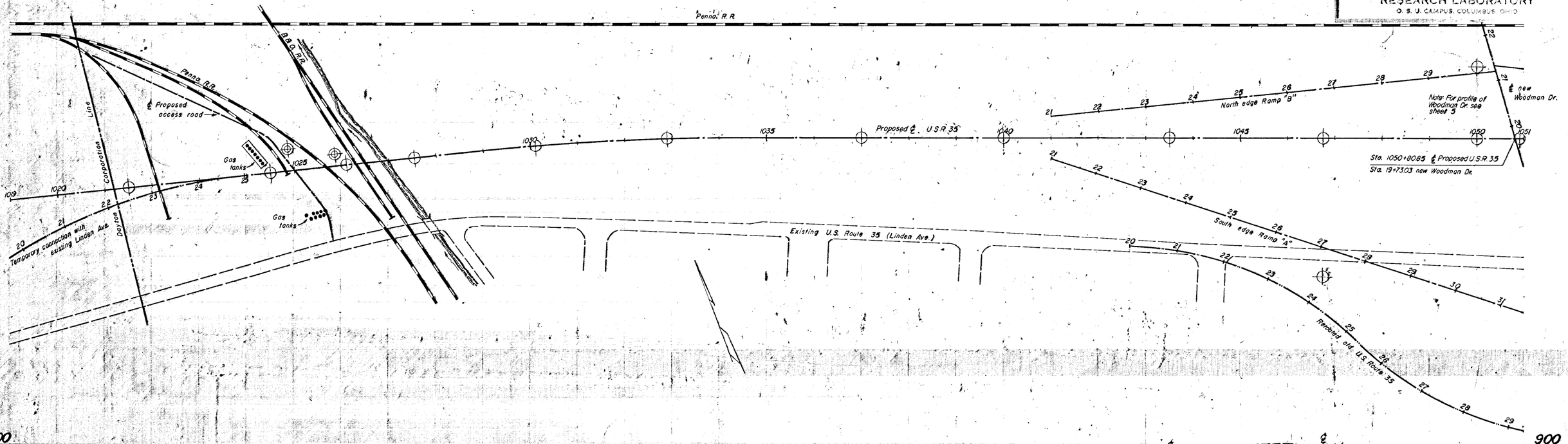

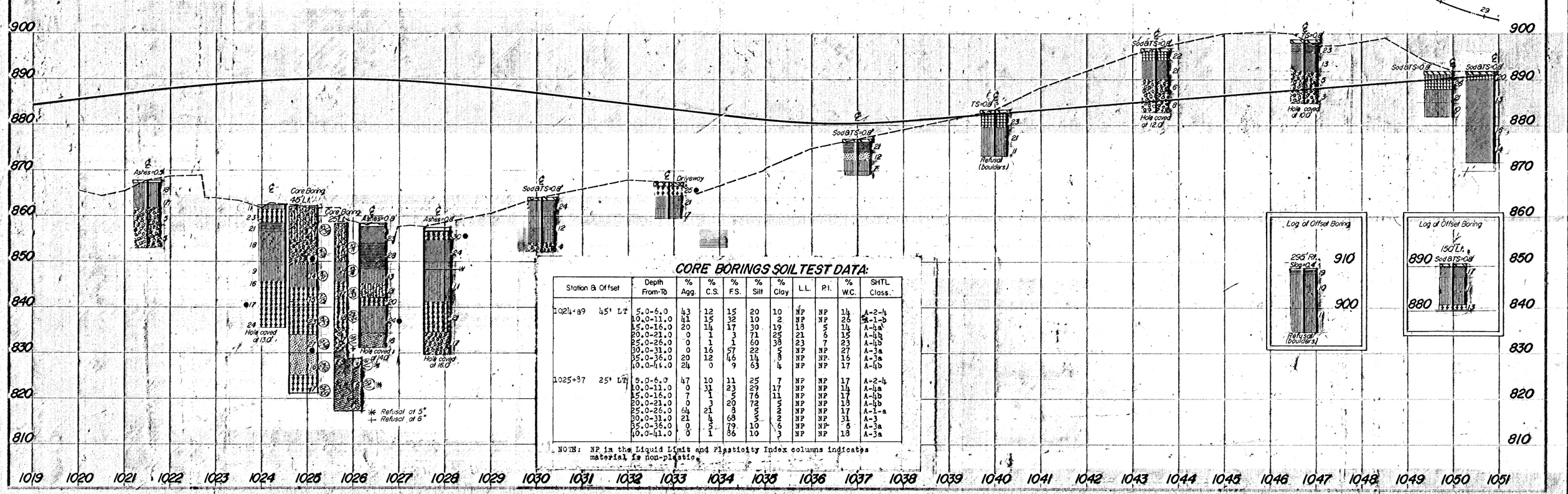

CORE BORINGS SOIL TEST DATA:

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1024+89 45' LT	5.0-6.0	43	12	15	20	10	NP	NP	14	A-2-4
	10.0-11.0	41	15	32	10	2	NP	NP	26	A-1-b
	15.0-16.0	20	14	17	30	19	18	5	14	A-4a
	20.0-21.0	0	1	3	71	25	21	6	15	A-4b
	25.0-26.0	0	1	1	60	38	23	7	23	A-4b
	30.0-31.0	0	16	57	22	5	NP	NP	27	A-3a
	35.0-36.0	20	12	46	14	8	NP	NP	16	A-3a
	40.0-41.0	24	0	9	63	4	NP	NP	17	A-4b
1025+37 25' LT	5.0-6.0	47	10	11	25	7	NP	NP	17	A-2-4
	10.0-11.0	0	31	23	29	17	NP	NP	14	A-4a
	15.0-16.0	7	1	5	76	11	NP	NP	17	A-4b
	20.0-21.0	0	3	20	72	5	NP	NP	18	A-4b
	25.0-26.0	64	21	8	5	2	NP	NP	17	A-1-a
	30.0-31.0	21	4	68	5	2	NP	NP	31	A-3
	35.0-36.0	0	5	79	10	6	NP	NP	6	A-3a
	40.0-41.0	0	1	86	10	3	NP	NP	18	A-3a

NOTE: NP in the Liquid Limit and Plasticity Index columns indicates material is non-plastic.

SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00

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

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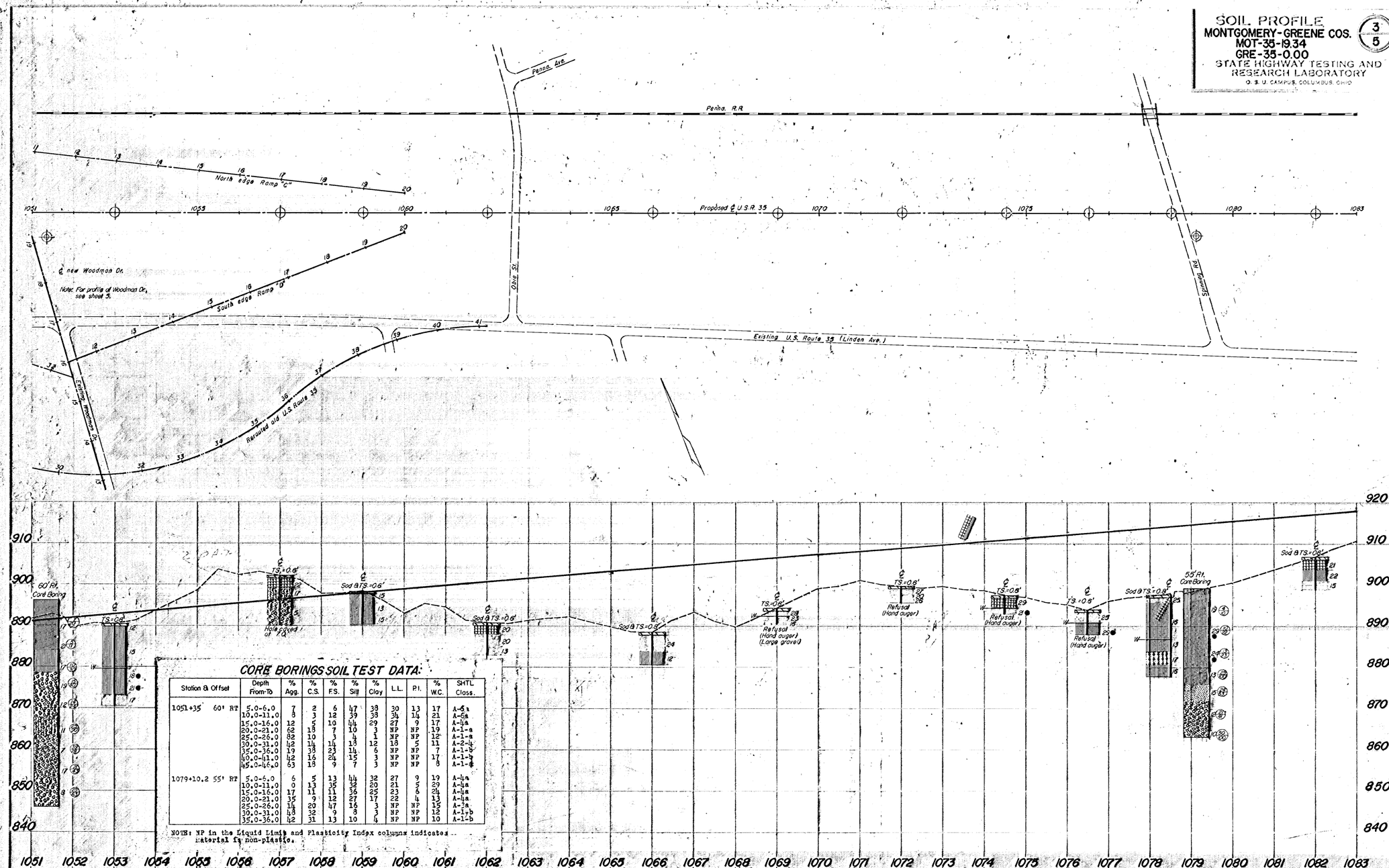

CORE BORINGS SOIL TEST DATA:

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1051+35 60' RT	5.0-6.0	7	2	6	47	38	30	13	17	A-6a
	10.0-11.0	8	3	12	39	38	34	14	21	A-6a
	15.0-16.0	12	5	10	44	29	27	9	17	A-4a
	20.0-21.0	62	18	7	10	3	NP	NP	19	A-1-a
	25.0-26.0	82	10	3	4	1	NP	NP	12	A-1-a
	30.0-31.0	42	14	14	18	12	18	5	11	A-2-4
	35.0-36.0	19	38	23	14	6	NP	NP	7	A-1-b
	40.0-41.0	42	16	24	15	3	NP	NP	17	A-1-b
	45.0-46.0	63	18	9	7	3	NP	NP	8	A-1-a
1079+10.2 55' RT	5.0-6.0	6	5	13	44	32	27	9	19	A-4a
	10.0-11.0	0	13	35	32	20	21	5	29	A-4a
	15.0-16.0	17	11	11	36	25	23	6	24	A-4a
	20.0-21.0	35	9	12	27	17	22	4	13	A-4a
	25.0-26.0	14	20	47	16	3	NP	NP	15	A-3a
	30.0-31.0	43	32	9	8	3	NP	NP	12	A-1-b
	35.0-36.0	42	31	13	10	4	NP	NP	10	A-1-b

NOTE: NP in the Liquid Limit and Plasticity Index columns indicates material is non-plastic.

SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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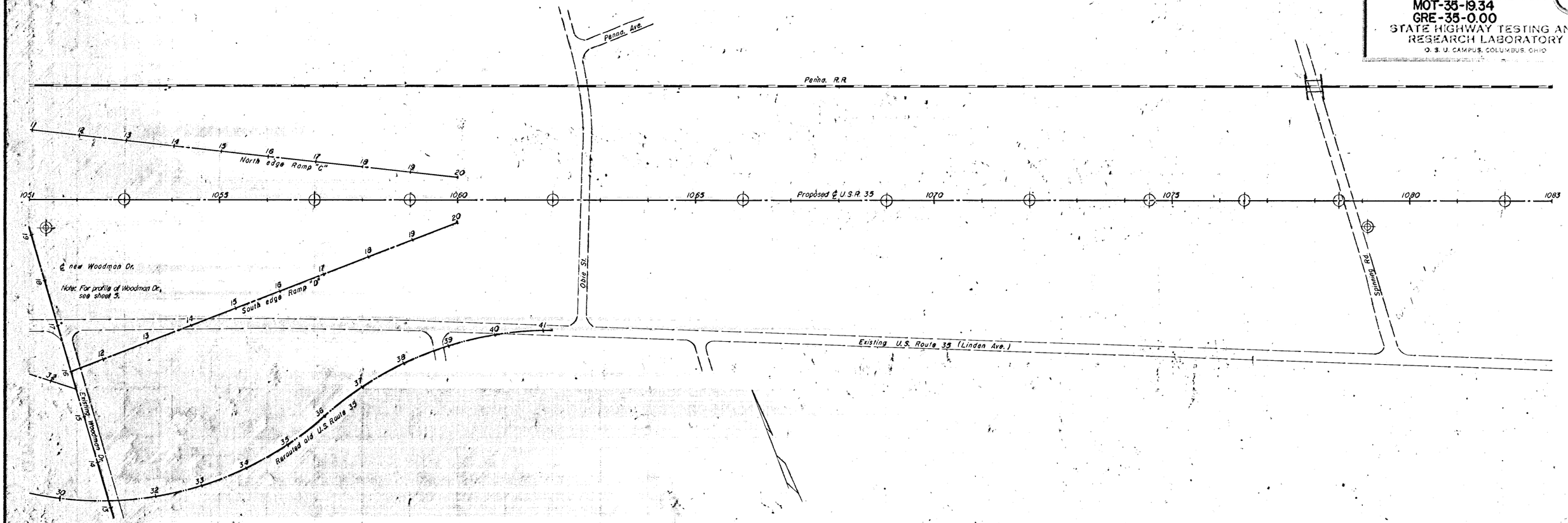

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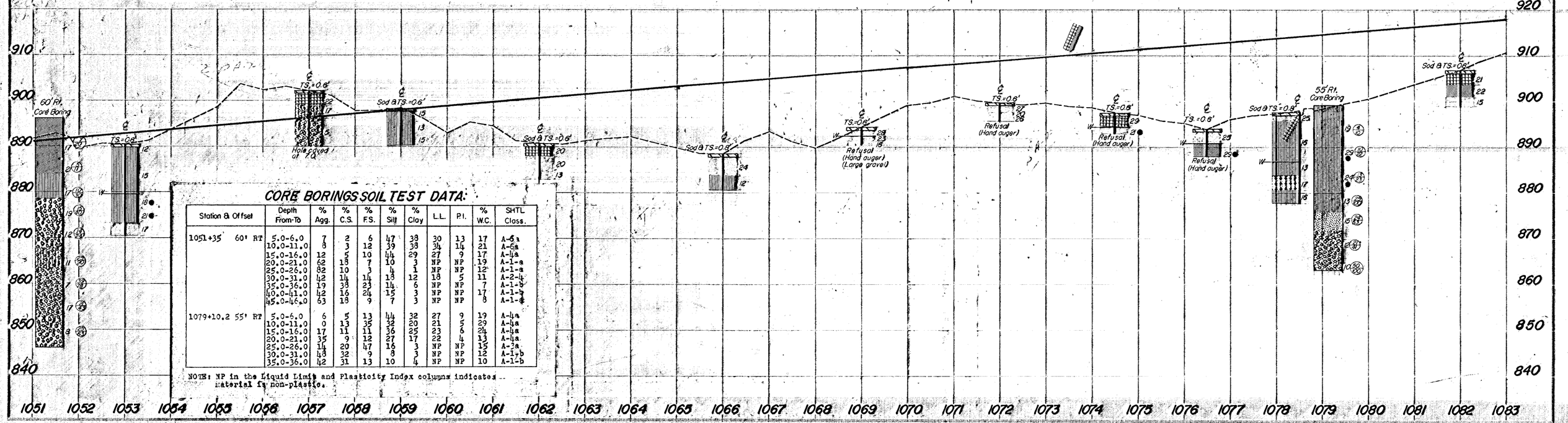


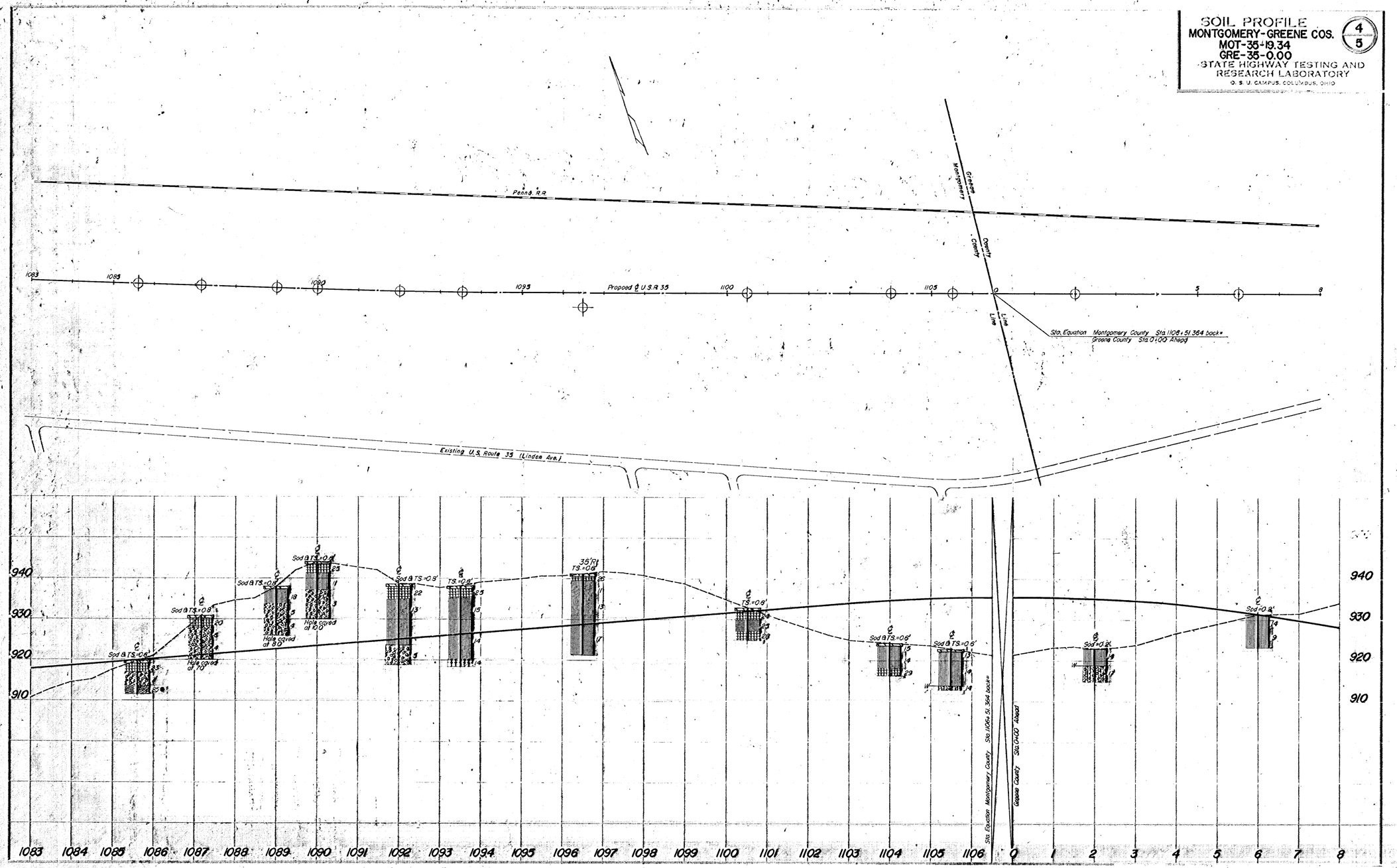
CORE BORINGS SOIL TEST DATA:

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class.
1051+35 60' RT	5.0-6.0	7	2	6	47	38	30	13	17	A-6a
	10.0-11.0	8	3	12	39	38	34	14	21	A-6a
	15.0-16.0	12	5	10	44	29	27	9	17	A-4a
	20.0-21.0	62	18	7	10	3	NP	NP	19	A-1-a
	25.0-26.0	82	10	3	4	1	NP	NP	12	A-1-a
	30.0-31.0	42	14	14	13	12	18	5	11	A-2-4
	35.0-36.0	19	38	23	14	6	NP	NP	7	A-1-b
	40.0-41.0	42	16	24	15	3	NP	NP	17	A-1-b
	45.0-46.0	63	18	9	7	3	NP	NP	8	A-1-a
1079+10.2 55' RT	5.0-6.0	6	5	13	44	32	27	9	19	A-4a
	10.0-11.0	0	13	35	32	20	21	5	29	A-4a
	15.0-16.0	17	11	11	36	25	23	6	24	A-4a
	20.0-21.0	35	9	12	27	17	22	4	13	A-4a
	25.0-26.0	14	20	47	16	3	NP	NP	15	A-3a
	30.0-31.0	43	32	9	8	3	NP	NP	12	A-1-b
	35.0-36.0	42	31	13	10	4	NP	NP	10	A-1-b

NOTE: NP in the Liquid Limit and Plasticity Index columns indicates material is non-plastic.

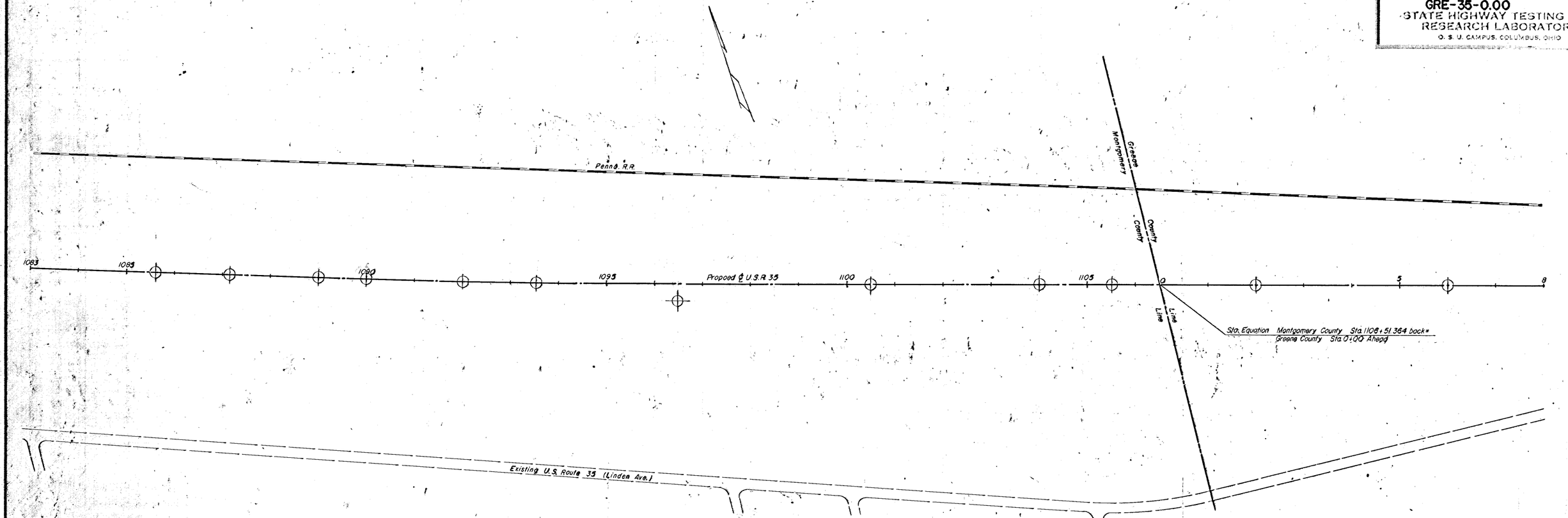
SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

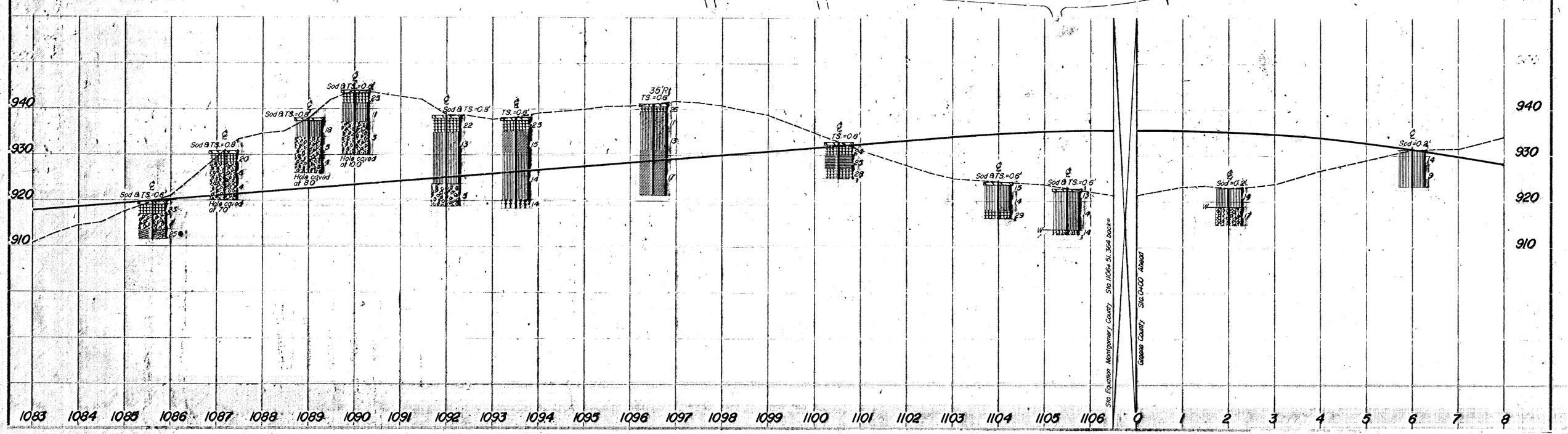
4
5



SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

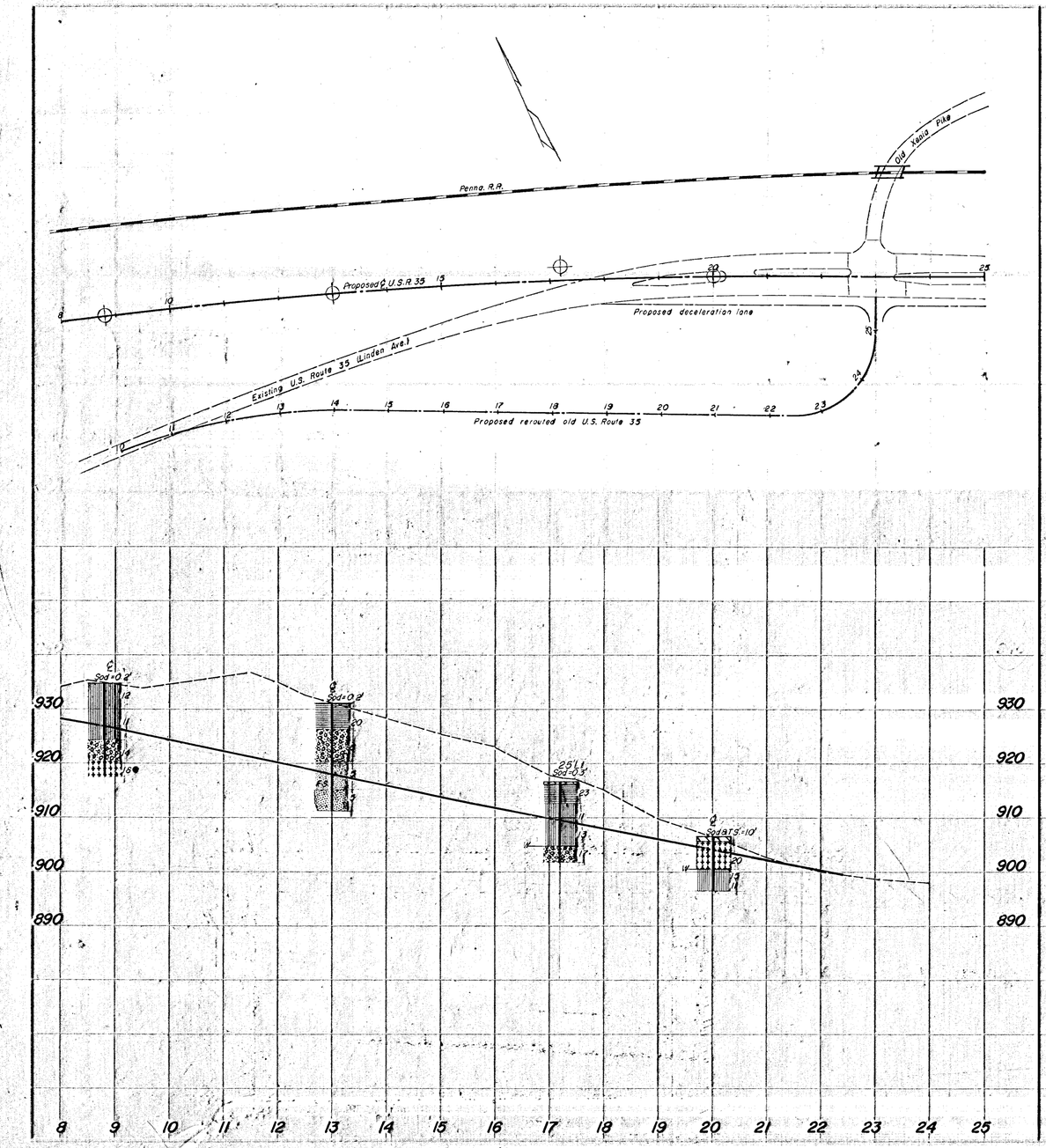
4
5

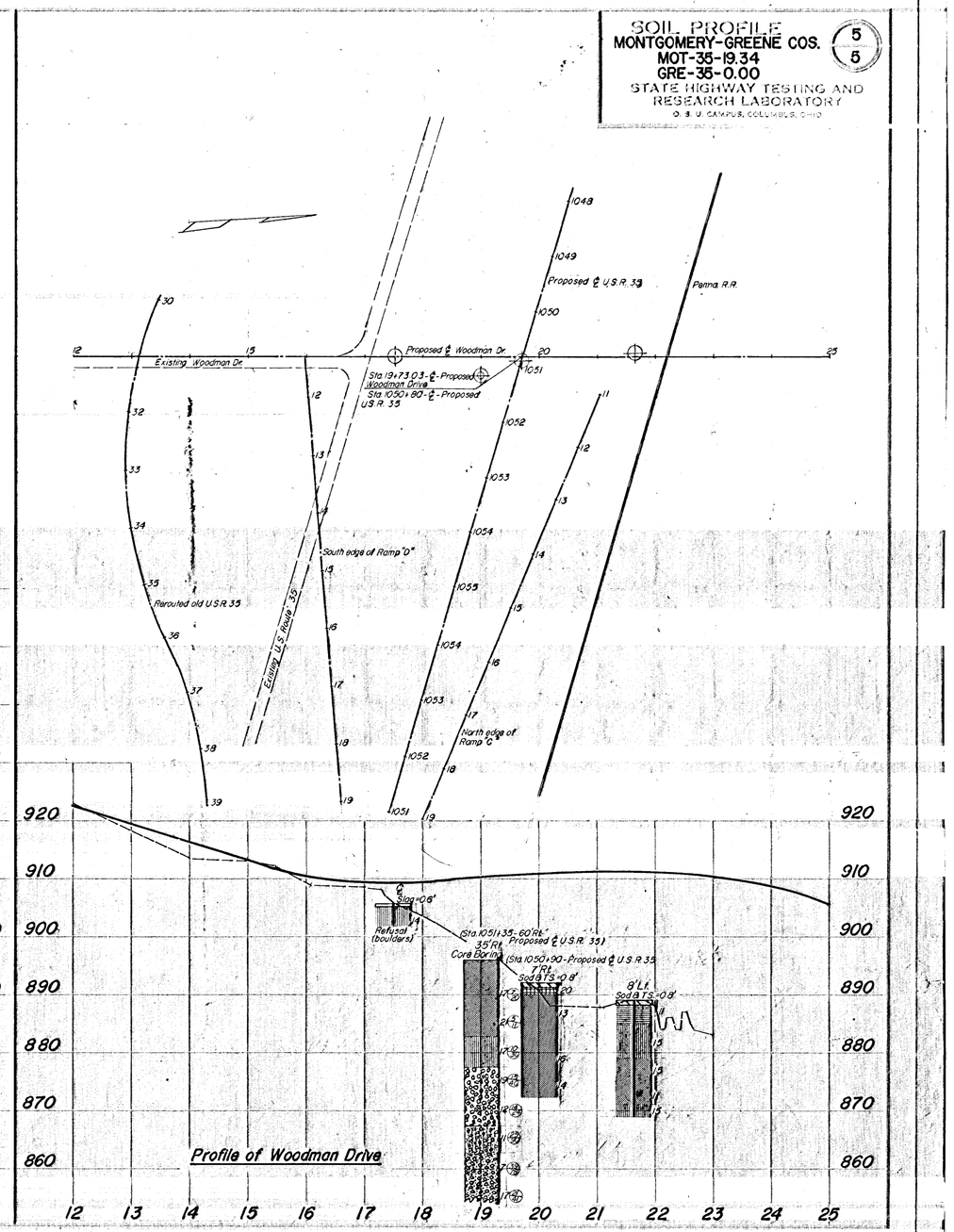



940
930
920
910
Sod @ TS.=0.8'
Hole caved at 7.0'
Hole caved at 8.0'
Hole caved at 10.0'
35' Rt
TS.=0.6'
Sod=0.2'
Sta. Equation Montgomery County Sta. 1106+51.364 back=
Geauga County Sta. 0+00 Ahead
1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106
0 1 2 3 4 5 6 7 8

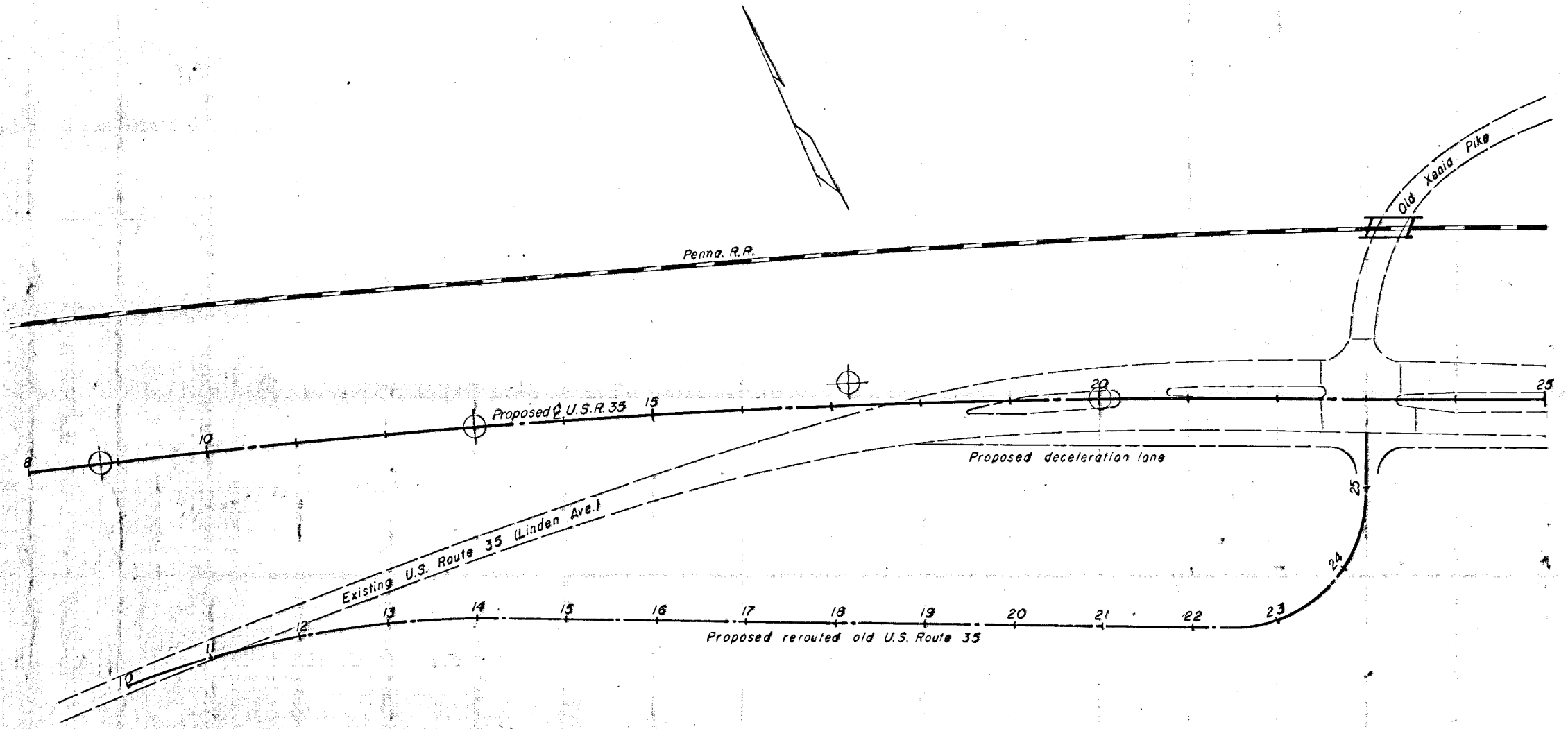
SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

5/5





Profile of Woodman Drive


Old Xenia Pike
Penna. R.R.
Proposed ℄ U.S.R. 35
Proposed deceleration lane
Existing U.S. Route 35 (Linden Ave.)
Proposed rerouted old U.S. Route 35
8
9
10
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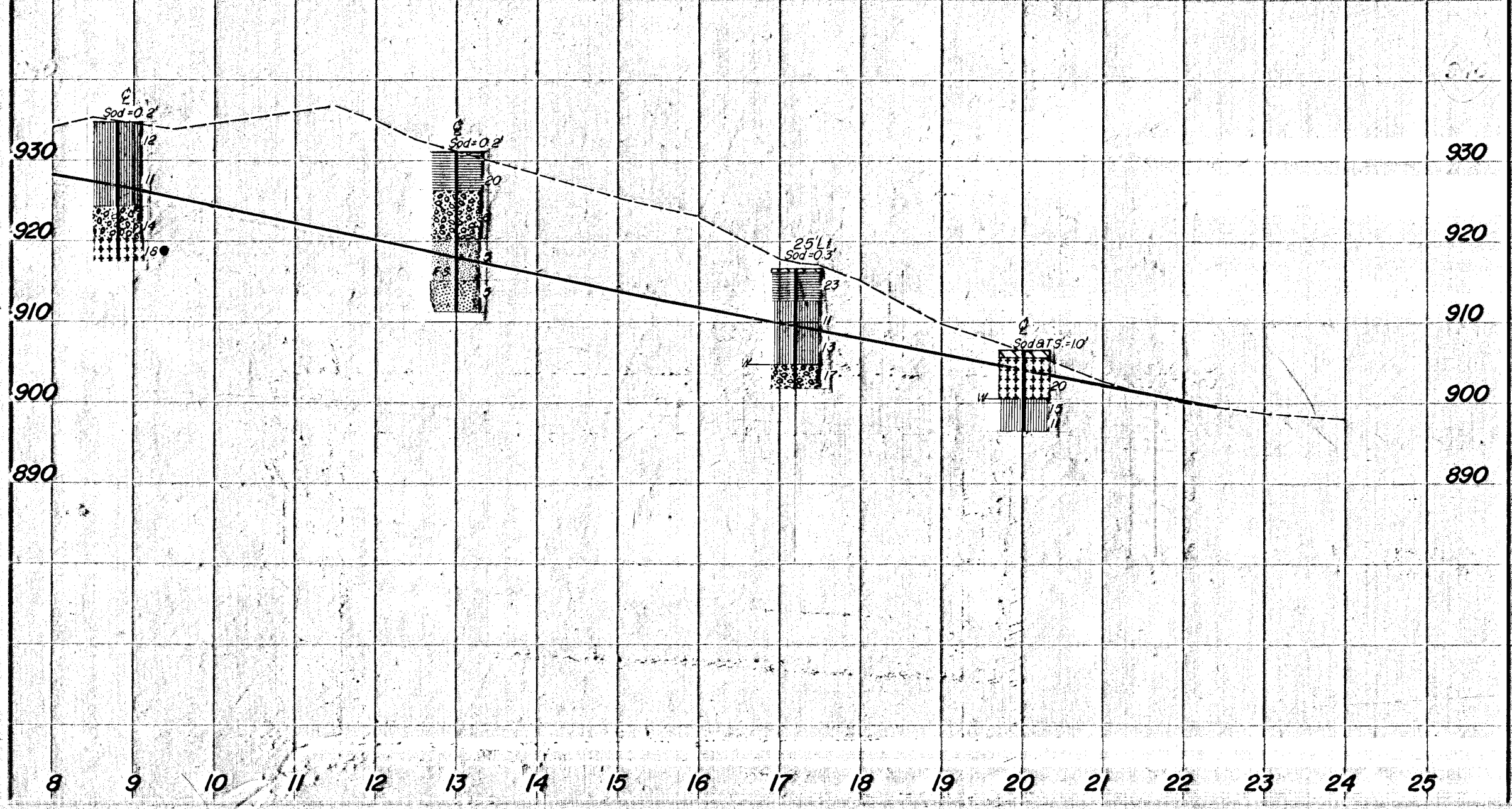
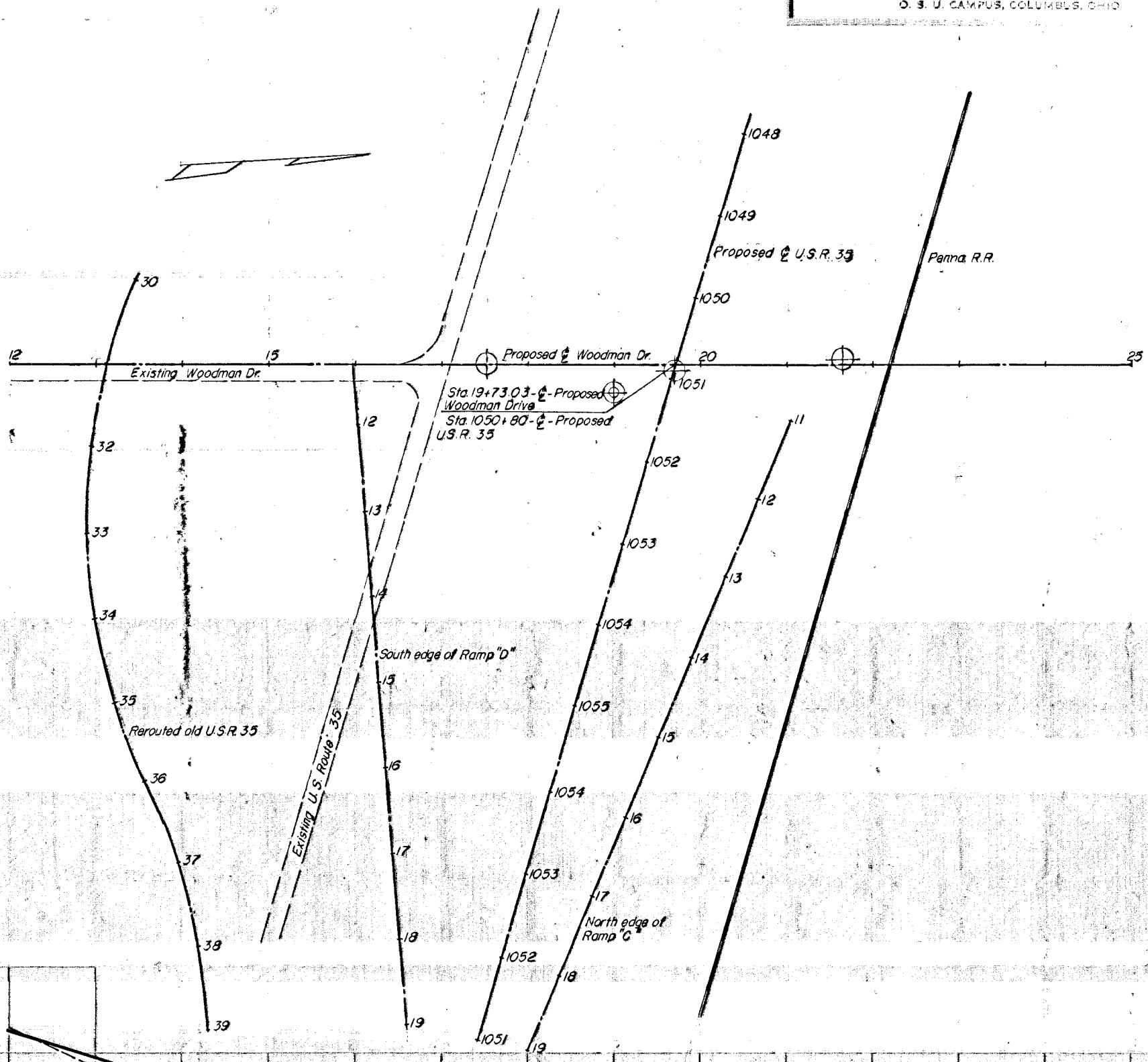
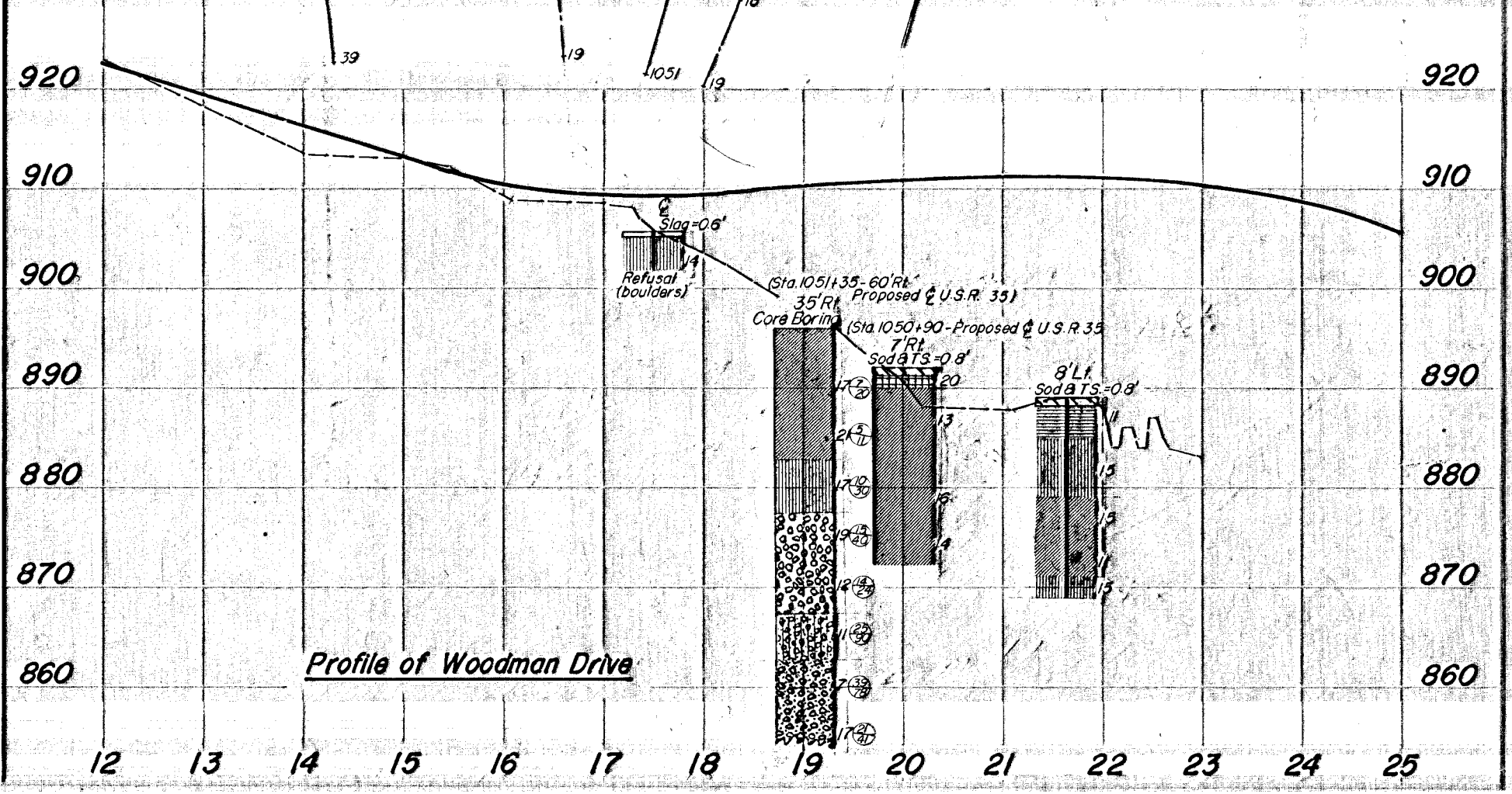

℄
Sod = 0.2'
12
11
14
18
℄
Sod = 0.2'
20
25'Lt
Sod = 0.3'
23
11
13
14
17
℄
Sod @ T.S. = 1.0'
20
14
13
930
920
910
900
890
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

SOIL PROFILE
MONTGOMERY-GREENE COS.
MOT-35-19.34
GRE-35-0.00

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

5/5





Profile of Woodman Drive