1957
Year

Job. No. 06171

Changes

00419

File No. FES-6
46-40/7D-065

County FRANKLIN
Bridge No. FRA-62-0286
Section FRA-62-1.42
☐ over ☒ under
Location YOUNG Rd.

DESIGN BY

	RECON	AUGER	CORE	DRIVE ROD
By			SPRAGUE ELLIS	WETZEL
Dates			2/22-26/57	2/12-13/57
No. of Holes or Soundings			2	4
Footage			101.0	155.0
Samples Tested			20	

SITE PLANS	
Date Recd	11-16-56
Revised Plan	

Topo Sheet

☐ Samples Accounted For

Transmittal Date 3-27-57

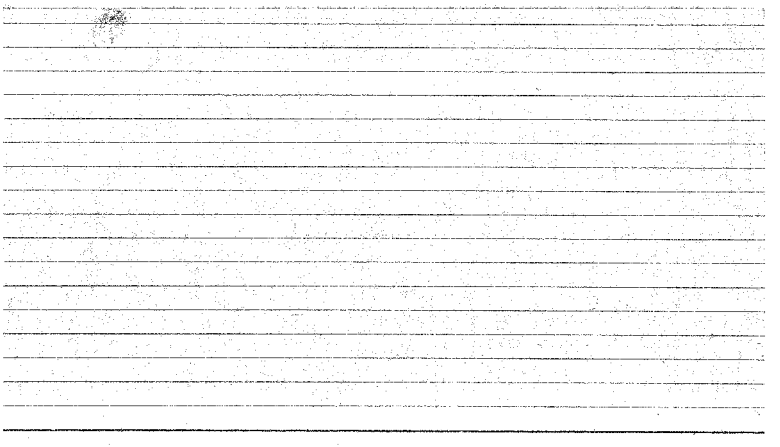
No. of Tracings Filed with year

Revisions

Remarks

Refer To

Auger Data			Drive Rod		Core Data		
No. of Holes	Footage	Samples	No. of Soundings	Footage	No. of Holes	Footage	Samples
—	—	—	4	155.0	2	101.0	20



FIELD DATA - ROD PENETRATION

Location No. 3 County: Franklin

Pier - ~~Abut~~ Bridge No. ~~Pa-44-0429~~

Station: 19+23 Over: Young Rd.

Offset: 8' Lt.

Started: 2-13-57

Completed: 2-13-57 Equipment: 21-0-16

D. R. Diameter 1.35

Ground Line Elevation 972.9

6.3 Casing

Proposed Footer

Depth Feet	Penetration	Elevation
0	1 1/2	846.6
	1 1/16	
	1 1/8	
	15/16	
	7/8	
5	7/8	861.6
	7/8	
	3/4	
	9/16	
	3/4	
10	5/8	856.6
	5/8	
	5/8	
	9/16	
	9/16	
15	9/16	851.6
	9/16	
	7/16	
	7/16	
	7/16	
20	1/2	846.6
	3/8	
	7/8	
	3/8	
	7/8	
25	3/8	841.6
	7/16	
	3/8	
	7/8	
	7/8	
30	5/16	836.6
	7/8	
	5/16	
	5/16	
	7/8	
35	5/16	831.6
	5/16	
	5/16	
	5/16	
	5/16	
40	1/8	826.6
	1/8 —	825.6
45		
50		
55		
60		

Party Perry Glass

Rod Condition: 12' Rod Bent

Chief of Party B. Chetzel

FIELD DATA - ROD PENETRATION

Location No. 4 County: FRANKLIN

~~LEAK~~ Pier ~~Abut.~~ Bridge No. 62-0286

Station: 19+36 Over: UNDER YOUNG ROAD

Offset: 14' LT.

Started: 2-13-57

Completed: 2-13-57 Equipment: 21-0-15

D.R. Diameter 1.35

Ground Line

Proposed Footer

Depth Feet	Penetration	Elevation 872.1
0		
	2" 3/4	
5	2" 3/8	867.1
	2" 1/8	
	1" 1/2	
	1" 1/16	
	15/16	
10	3/4	862.1
	3/4	
	13/16	
	13/16	
	15/16	
15	3/4	857.1
	11/16	
	3/4	
	5/8	
	11/16	
20	3/4	852.1
	11/16	
	3/4	
	11/16	
	1/2	
25	1/8	847.1

25		847.1
	7/16	
	3/8	
	1/8	
	5/16	
30	3/8	842.1
	5/16	
	1/8	
	1/4	
	3/16	
35	1/4	837.1
	1/8+	
	1/4	
	1/4	
	1/4	
40	5/16	832.1
	1/8	
	1/16+	830.1
45		
50		
55		
60		

Rod Condition: 8' Rod Bent

Party [illegible]

Chief of Party [illegible]

FIELD DATA - ROD PENETRATION

Location No. 7 County: FRANKLIN

FERNALD Pier ~~Abut.~~ Bridge No. 62-0286

Station: 20+63 Over/Under: YOUNG RD.

Offset: 14' LT.

Started: 2-12-97

Completed: 2-13-97 Equipment: 21-0-16

D.R. Diameter 1 3/8"

Ground Line Elevation 871.5

6.0 Casing

Proposed Footer

Depth Feet	Penetration	Elevation
0	2 1/4	865.5
	2 3/4	
	1 1/2	
	1	
	7/8	
5	15/16	860.5
	1	
	15/16	
	7/8	
	3/4	
	5/8	
10	15/16	855.5
	7/8	
	5/8	
	1/2	
	5/8	
15	1/2	850.5
	1/2	
	7/16	
	1/2	
	7/16	
20	7/16	845.5
	7/16	
	7/16	
	7/16	
	5/8	
25	7/16	840.5

Party PERRY GLASS

25		840.5	
	3/8		
	7/16		
	3/8		
	5/16		
30	3/16	835.5	
	1/4		
	1/4		
	5/8		
	7/16		
35	1/8	830.5	1/8 OVER NITE CHECK
	1/16	829.5	
40			
45			
50			
55			
60			

Rod Condition: 20' ROD BENT

Chief of Party B. Lutzel

FIELD DATA - ROD PENETRATION

Location No. 8 County: FRANKLIN

FORWARD Pier ~~Abut.~~ Bridge No 62-0286

Station: 20+76 UNDER ~~Over~~: YOUNG RD.

Offset: 14' RT.

Started: 2-12-57

Completed: 2-13-57 Equipment: 21-0-15

DR. Diameter 13.5"

Ground Line Elevation 870.9

Proposed Footer

Depth in Feet	Penetration	Elevation
0		
	2 1/4	
5	2" 15/16	865.9
	2" 5/16	
	1" 7/8	
	11/16	
	5/16	
10	5/16	860.9
	3/4	
	5/8	
	13/16	
	13/16	
15	1 1/2	855.9
	9/16	
	5/8	
	5/8	
	1 1/2	
20	7/16	850.9
	7/16	
	3/8	
	1/4	
	5/16	
25	5/16	845.9
		845.9
	5/16	
	3/16	
	1/4	
	1/4	
30	1/4	840.9
	3/16	
	3/16	
	3/16	
	3/16	
35	1/8	835.9
	1/8	834.9
40		
45		
50		
55		
60		

1/8+ OVERNIGHT CHECK.

Rod Condition: RENT. 20'-ROD.

Party SCHIAPPA

Chief of Party B. WATTS

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section FRA-62-0286

Bridge No.

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis					Physical Characteristics			Ohio Class.	Remarks
				Agg. %	C Sand %	F Sand %	Silt %	Clay %	L.L.	P.I.	Water Cont.		
59577	1	20+63, 19 Lt	5-6	7	9	13	36	35	29	12	19	6a	VERY SANDY CLAY
59578	2	"	10-11	28	10	11	29	22	22	7	11	4a	GR. SANDY GRAV. SILT
59579	3	"	15-16	27	10	12	30	21	21	7	12	4a	SANDY GRAV. SILT
59580	4	"	20-21	13	11	16	36	24	20	3	11	4a	SANDY SILT
59581	5	"	25-26	16	12	16	32	24	20	5	12	4a	GR. GRAV. SANDY SILT
59582	6	"	30-31	12	10	14	31	33	21	4	12	4a	SANDY SILT
59583	7	"	35-36	34	16	12	20	18	18	3	14	4a	SILTY SANDY GRAVEL
59584	8	"	40-41	27	10	14	17	32	21	5	13	4a	GR. SANDY GRAV. SILT
59585	9	"	45-46	81	5	4	7	3	NP		12	1-a	GR. GRAVEL
59586	10	"	50-51	92	3	2	2	1	NP		7	1-a	GRAVEL

SUMMARY OF SOIL TEST DATA ON FOUNDATION SAMPLES

County, Rt. No., Section FRA-62-0286

Bridge No.

Lab. No. So.-	Field No.	Station No.	Represents Feet	Mechanical Analysis					Physical Characteristics			Ohio Class.	Remarks
				Agg. %	C Sand %	F Sand %	Silt %	Clay %	L.L.	P.I.	Water Cont.		
59567	1	Hole No. 4	5-6	0	15	31	28	26	27	9	27	4a	SANDY SILT
59568	2	"	10-11	22	13	16	28	21	20	3	19	4a	GRAVELLY SANDY SILT
59569	3	"	15-16	21	12	13	36	18	19	4	12	4a	GRAVELLY SANDY SILT
59570	4	"	20-21	66	6	7	11	10	19	4	11	1-b	SILTY GRAVEL
59571	5	"	25-26	29	11	12	30	18	19	4	10	4a	SANDY GRAVELLY SILT
59572	6	"	30-31	34	12	11	23	20	19	7	11	4a	SANDY GRAVELLY SILT
59573	7	"	35-36	20	12	16	31	21	17	2	11	4a	GRAVELLY SANDY SILT
59574	8	"	40-41	18	9	14	35	24	20	4	11	4a	GRAVELLY SANDY SILT
59575	9	"	45-46	3	9	16	36	36	22	7	12	4a	SANDY SILT
59576	10	"	49-50	15	9	15	35	26	20	5	11	4a	SANDY SILT

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

SUMMARY OF SOIL TEST DATA

CO., RT. NO., SEC. FRANKLIN
FRA-62-1.42
FRA-62-0286
US 62 UNDER YOUNG RD.
SHEET NO. 1 OF 12 SHEETS

SAMPLE NUMBER	LABORATORY NUMBER SO-	PHYSICAL CHARACTERISTICS								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	WATER CONTENT	
										LOG OF WILLIAMS AUGER BORING
	STA 150+50, CL, GND. EL. 870.9									Depth
										0.0-0.3 SOD
56-2	52789	4	4	12	29	51	41	23	25	0.3-5.0 BROWN CLAY
57-2	52790	6	8	13	34	39	29	11	15	5.0-8.0 BROWN SANDY CLAY
										CORE SAMPLES
1	59567	0	15	31	28	26	27	9	27	BROWN SANDY SILT
2	59568	22	13	16	28	21	20	3	19	BR. GRAVELLY SANDY SILT
3	59569	21	12	13	36	18	19	4	12	GR. GRAVELLY SANDY SILT
4	59570	66	6	7	11	10	19	4	11	GRAY SILTY GRAVEL
5	59571	29	11	12	30	18	19	4	10	GR. SANDY GRAVELLY SILT
6	59572	34	12	11	23	20	19	7	11	GR. SANDY GRAVELLY SILT
7	59573	20	12	16	31	21	17	2	11	GR. GRAVELLY SANDY SILT
8	59574	18	9	14	35	24	20	4	11	GR. GRAVELLY SANDY SILT
9	59575	3	9	16	36	36	22	7	12	GRAY SANDY SILT
10	59576	15	9	15	35	26	20	5	11	GRAY SANDY SILT
1	59577	7	9	13	36	35	29	12	19	YELLOW-BROWN SANDY CLAY
2	59578	28	10	11	29	22	22	7	11	GR. SANDY GRAVELLY SILT
3	59579	27	10	12	30	21	21	7	12	GR. SANDY GRAVELLY SILT
4	59580	13	11	16	36	24	20	3	11	GRAY SANDY SILT
5	59581	16	12	16	32	24	20	5	12	GR. GRAVELLY SANDY SILT
6	59582	12	10	14	31	33	21	4	12	GRAY SANDY SILT
7	59583	34	16	12	20	18	18	3	14	GR. SILTY SANDY GRAVEL
8	59584	27	10	14	17	32	21	5	13	GR. SANDY GRAVELLY SILT
9	59585	81	5	4	7	3	NP	NP	12	GRAY GRAVEL
10	59586	92	3	2	2	1	NP	NP	7	GRAY GRAVEL

RC

3-11-57

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO. SEC. FRA-62-1.42 BRIDGE NO. FRA-62-0296
FEAR PIER US 62 UNDER YOUNG RD.

LOCATION: T.H. 4 STA. 19+36 OFFSET 14' RT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
872.1	0			
	2			
	4			
867.1	6	3	59567	BROWN SANDY SILT
	8			
862.1	10			
	12	17	59568	BROWN GRAVELLY SANDY SILT
	14			
857.1	16	9	59569	GRAY GRAVELLY SANDY SILT
	18			
852.1	20			
	22	26	59570	GRAY SILTY GRAVEL
	24			
847.1	26	43	59571	GRAY SANDY GRAVELLY SILT
	28			
842.1	30			
	32	44	59572	GRAY SANDY GRAVELLY SILT
	34			
837.1	36	32	59573	GRAY GRAVELLY SANDY SILT

RC
3-11-57

LOG OF BORING (CONTINUED)

BRIDGE NO. FRA-62-0286 T.H. 4

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
832.1	40	34	59574	GRAY GRAVELLY SANDY SILT
	42			
	44			
827.1	46	60	59575	GRAY SANDY SILT
	48			
822.1	50	140	59576	GRAY SANDY SILT
				BOTTOM OF HOLE
	52			
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC
3-11-57

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY

LOG OF BORING

CO., RT. NO., SEC. FRA-62-1.42 BRIDGE NO. FRA-62-0286
FORWARD PIER US 62 UNDER YOUNG RD.

LOCATION: T.H. 7 STA. 20+63 OFFSET 14' LT. FED. NO.

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
871.5	0			
	2			BLACK SILTY CLAY-TOP SOIL
868.5				
	4			
866.5	6	9	59577	YELLOW-BROWN SANDY CLAY
	8			
861.5	10	38	59578	GRAY SANDY GRAVELLY SILT
	12			
	14			
856.5	16	20	59579	GRAY SANDY GRAVELLY SILT
	18			
851.5	20	30	59580	GRAY SANDY SILT
	22			
	24			
846.5	26	28	59581	GRAY GRAVELLY SANDY SILT
	28			
841.5	30	22	59582	GRAY SANDY SILT
	32			
	34			
836.5	36	27	59583	GRAY SILTY SANDY GRAVEL

RC
3-11-57

LOG OF BORING (CONTINUED)

BRIDGE NO. FRA-62-0286 T.H. 7

ELEV.	DEPTH	NO. BLOWS	SAMPLE NO.	DESCRIPTION
	38			
831.5	40	29	59584	GRAY SANDY GRAVELLY SILT
	42			
	44			
826.5	46	32	59585	GRAY GRAVEL
	48			
821.5	50	34	59586	GRAY GRAVEL
	52			BOTTOM OF HOLE
	54			
	56			
	58			
	60			
	62			
	64			
	66			
	68			
	70			
	72			
	74			
	76			
	78			
	80			
	82			

RC
3-11-57

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

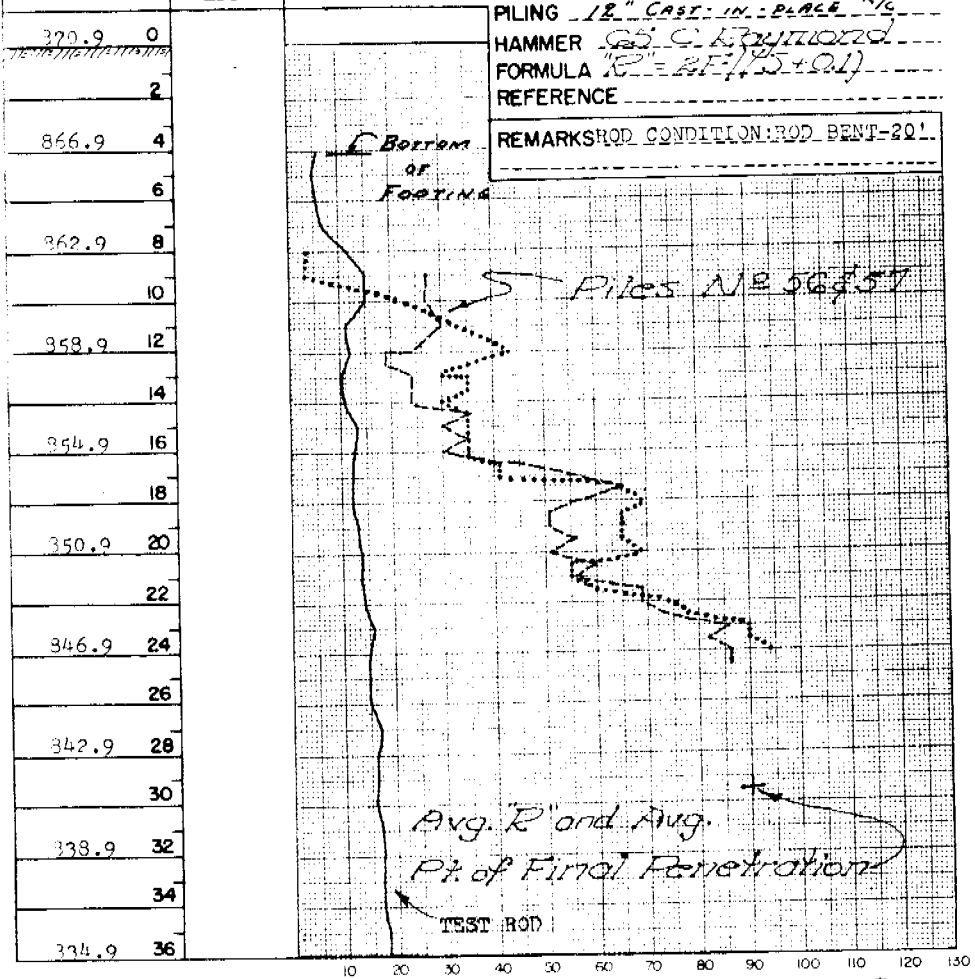
FOUNDATION DATA

CO., RT. NO., SEC. FRA-62-1.42 — BRIDGE NO. FRA-62-0236
FORWARD PIER — US 62 UNDER YOUNG RD.

LOCATION T.H. 8 — STA. 20+76 — OFFSET 14' RT. — FED. NO. F-

GND. EL. 370.9
WATER ELEV. — DATE 2-13-57

PILING 12" CAST IN PLACE R/C
HAMMER 6S C. RAYMOND
FORMULA "R" = 2E/(S+.04)
REFERENCE
REMARKS ROD CONDITION: ROD BENT-20'



BY R.S.
DATE 3-11-57

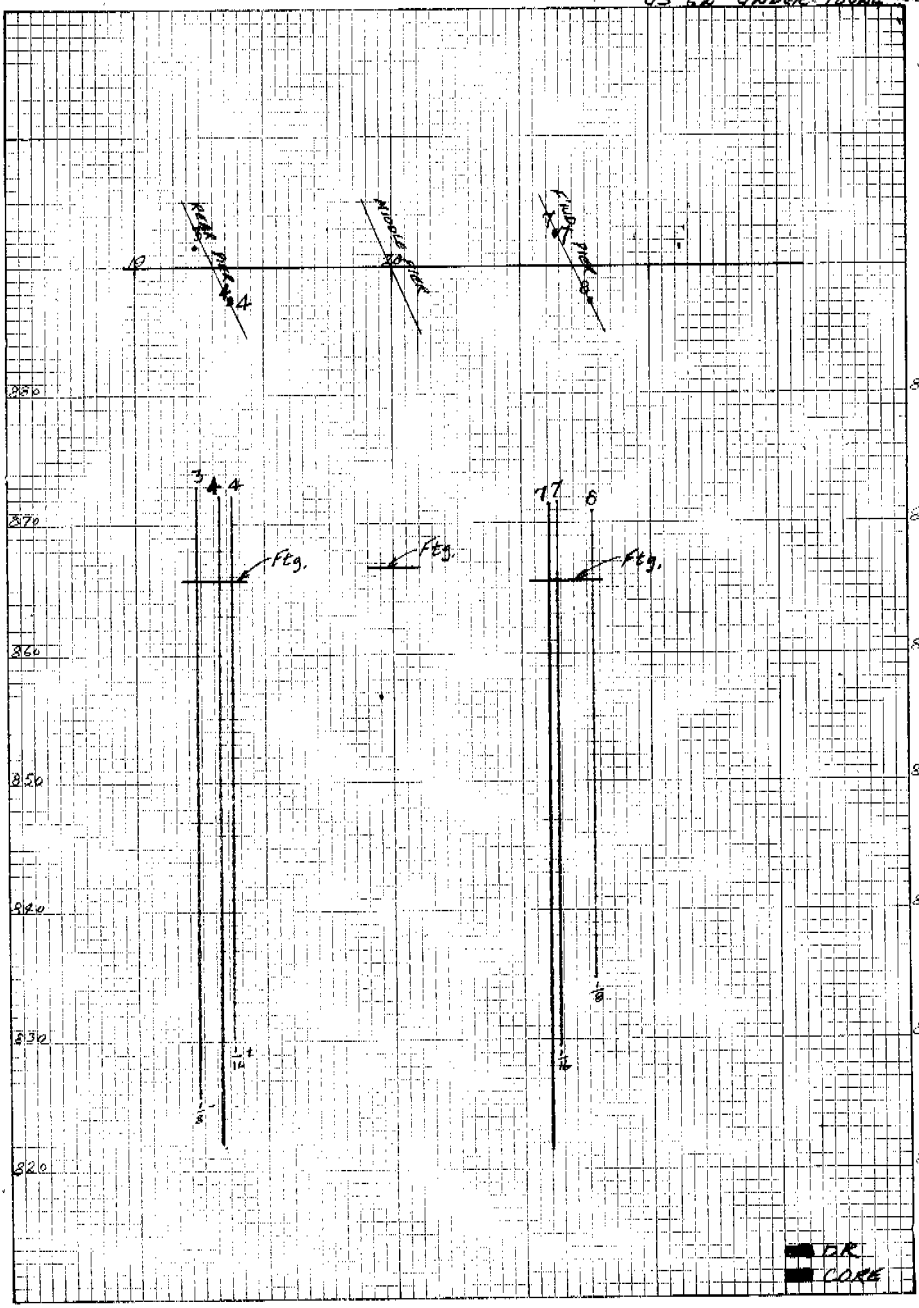
11/23/56
J.S.M.

FRA-62-0286 Youngs
0464 Rte. 665
0625 Hoover Rd.
0808 Stringtown Rd

All structures on this project lie for out on the glacial till plains in an area of thin to moderately thick Loess of over 100 feet. At no place will the borings be expected to reach the underlying limestones rocks possibly on the structures near Grove City.

FRA-62-0286
US 62 UNDER YOUNG RD.

Ohio State University Form 870-A



Kan Pike

FIELD LOG
CORE BORING
(STRUCTURE)

T.H. Hole #4 SURF. EL. 872.1 CO. Pt. Sec. Fri. 62
Sta. 194+26 Offset 14'RT Bridge No. O 286
Date started 2/22-57 Finished 2/26-57 Water El.
Crew J Greene S. Jones RD Pike
General N otes

Depth	Elev.	No. Blows	Sample No.	Water Color	Description
5.0	867.1	3	#1	brown	Sand some gravel
10.0	862.1	17	#2	brown	Sand & gravel
15.0	857.1	9	#3	gray	gr clay silt with sand & gravel
20.0	852.1	26	#4	gray	gr clay silt with sand & gravel
25.0	847.1	43	#5	gray	gr. silt clay with gravels
30.0	842.1	44	#6	gray	gray clay silt with gravels & boulders
35.0	837.1	32	#7	gray	gray clay silt with gravels & boulders
40.0	832.1	34	#8	gray	gray silt clay with gravels - Sand & gravel dense At 37.0
45.0	827.1	60	#9	gray	gray silt clay with gravel
50.0	822.1	170	#10	gray	gray silt clay with gravel

FIELD LOG
CORE BORING
(STRUCTURE)

T.H. 7 SURF. EL. 871.5 CO. Rt. Sec. FRA-62
Sta. 20+63 Offset 14L Bridge No. 0286
Date started FEB 25 1957 Finished FEB 25-27/57 Water El.
Crew DeSTINE S JONES
General Notes THIS GRAY TILL CONSITS OF SOME LIMESTONE CHUNKS, SANDSTONE BUT VERY LITTLE, ALSO SAMPLE #10 HAD A PIECE OF BLACK SHALE - PROBABLY 1 IN. SHALE LAST 10' DRILLED VERY TOUGH BUT CONSISTENT PRESSURE WENT UP TO 200# - FISH TAILUSED ALL THE WAY - 20' CASING USED

Depth	Elev.	No. Blows	Sample No.	Water Color	Description
0-3				BLACK	BLACK SILTY CLAY - TOP SOIL
5-6	866.5	9	1		YELLOW-BROWN CLAY, SAND & GRAVEL
3-7	868.5	—	—	YELLOW	— " " " " "
7'	864.5			GRAY	GRAY TILL
10-11	861.5	38	2	GRAY	" "
15-16	856.5	20	3	"	" "
20-21	851.5	30	4	"	" "
25-26	846.5	28	5	"	" "
30-31	841.5	22	6	"	" "
35-36	836.5	27	7	"	" "
40-41	831.5	29	8	"	" "
45-46	826.5	32	9	"	" "
50-51	821.5	34	10	"	" "

A COARSE TO MED. SAND AT 17' & JOINT BELOW THAT WERE BOULDERS - NO TROUBLE AFTER WE CASED THAT OFF.

T.D. 51' ELEV. 820.5

Leland L Grant
Delegist

March 27, 1957

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

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

Report of Bridge Foundation Investigation — File: 13-41
FRA-62-0286 US 62 Under Young Rd. — Franklin

Transmitted herewith are the results of the foundation investigation made at the above structure site as well as the log of a Williams auger boring made in this vicinity at the time of the soil profile investigation. Drive rod soundings and drive sample borings were made between February 12 and 26, 1957.

The site is in an area of relatively thick glacial drift overlying limestone bedrock which is at such depth as to have no influence on the foundation design.

Borings disclose that the drift is dense and largely comprised of sand and silt with some gravelly and bouldery zones. Soundings and borings disclose the subsurface conditions to be relatively uniform in nature and were terminated in dense drift. No test penetrated to bedrock.

R. R. Litchiser
Engineer of Tests

Per _____
N. E. Mason
Assistant Engineer

NEM:DMR:kt
Encl.
cc: G. W. Alsdorf(1) Attn: R. V. Wood (No encl.)
H. W. Loehner and Co. Attn: Ed Vana
150 N. Wacker Drive
Chicago, Illinois
File (1)
Round (3)

June 28, 1957

C. H. Altvater, Assistant Engineer of Bridges - Preliminary Design

#6

Franklin

FRA-62-1.42

Raymond A. Grover, Foundation Engineer

FRA-62-0286
Under Young Road
58B
F-
06171

Bridge Foundation Investigation Report

During the period of February 12 and 26, 1957, rod penetration tests and drive sample borings were made in the vicinity of the above structure site. The field and laboratory operations of the investigations were performed by the Foundation Exploration Section and the Soil Section of the State Highway Testing Laboratory.

This bridge site is in an area of relatively thick glacial drift. The underlying limestone bedrock is at a depth as to have no influence on the foundation design.

The attached sheets show a summary of the soil test data, the soil logs, and the rod penetration curves as submitted by the Testing Laboratory.

From a study of the Laboratory's report, the recommendations for the foundation design are as follows:

1. Both abutments shall be placed on footings, without piles, seated in the fill embankment four feet below the earth benches. The maximum allowable soil pressure should be considered as 2 1/2 tons per square foot.

2. The footings for each pier shall be placed on 12" cast-in-place reinforced concrete piles driven to a bearing capacity equal to the design load, which should be approximately 35 or 40 tons per pile.

3. The estimated average pay length of the piles is 25 feet for the rear and forward piers and 23 feet for the center pier.

RAG:bn
Encls. (9)
cc: Merle I. Johnson (Attach.)
Ralph V. Wood (Attach.)
Neil Mason ✓ (Attach.)
August Schefer (Attach.)
H. W. Lochner & Co. (Attach.)
B.F.I. File

Raymond A. Grover

TESTING LAB

November 16, 1956

R. R. Litehiser, Engineer of Tests

J. G. Joslin, Soils Engineer

#6

Franklin

FRA-62-1.42

D. H. Overman, Engineer of Bridges

Raymond A. Grover, Foundation Engr.

FRA-62-0286
Under Yound Road
F-
58B
06171

REQUEST FOR INVESTIGATION OF BRIDGE FOUNDATION CONDITIONS

The Soil 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.

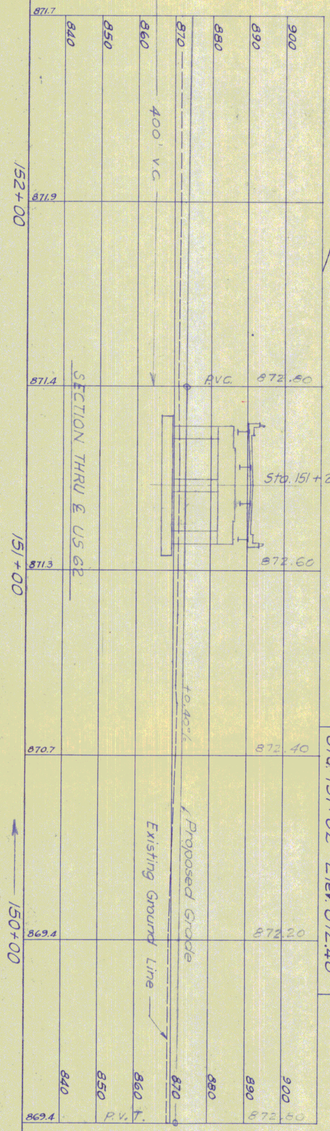
Request for location and elevation stakes to be sent to:

H. W. Lochner & Co.
150 N. Wacker Dr.
Chicago, Illinois

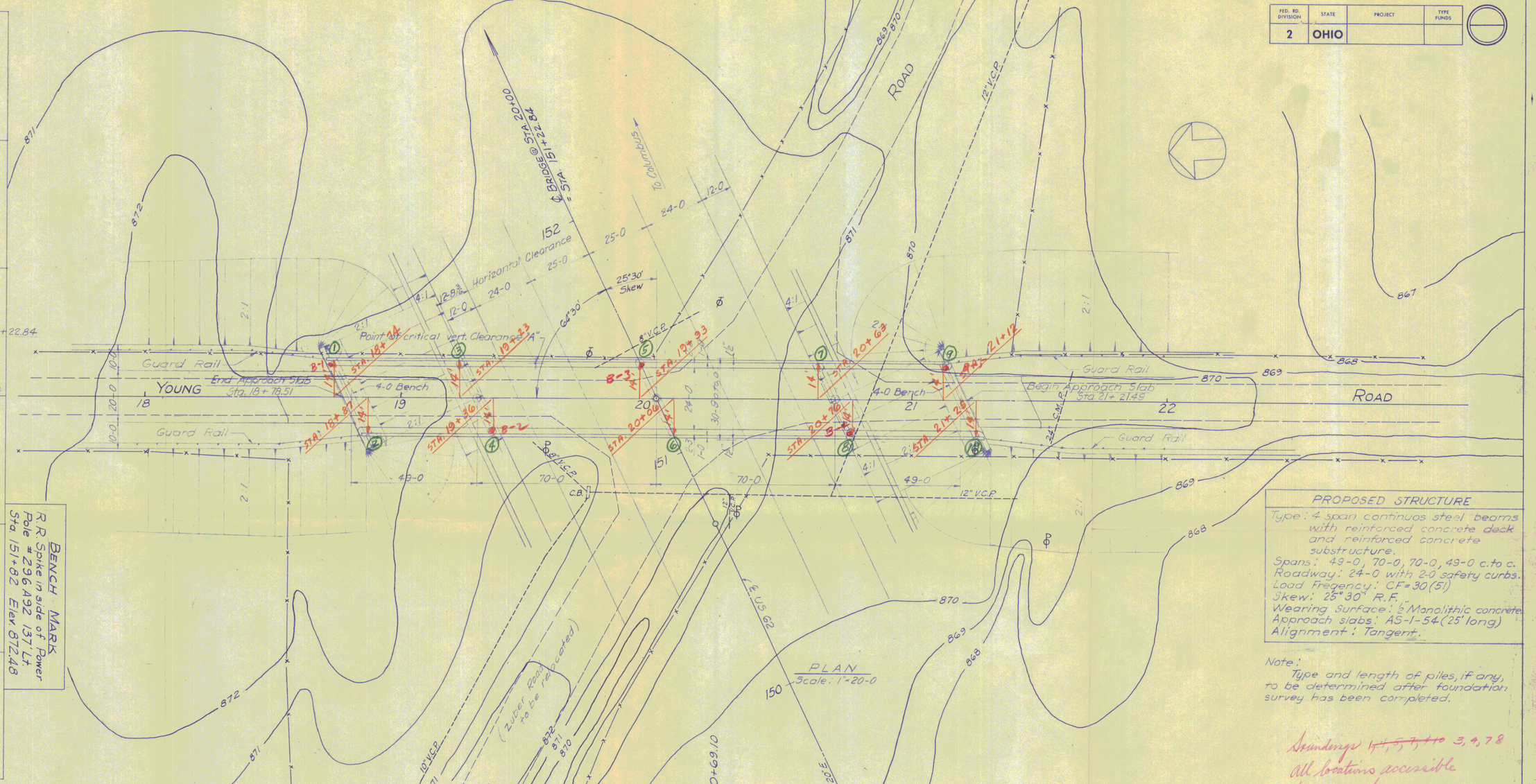
Raymond A. Grover

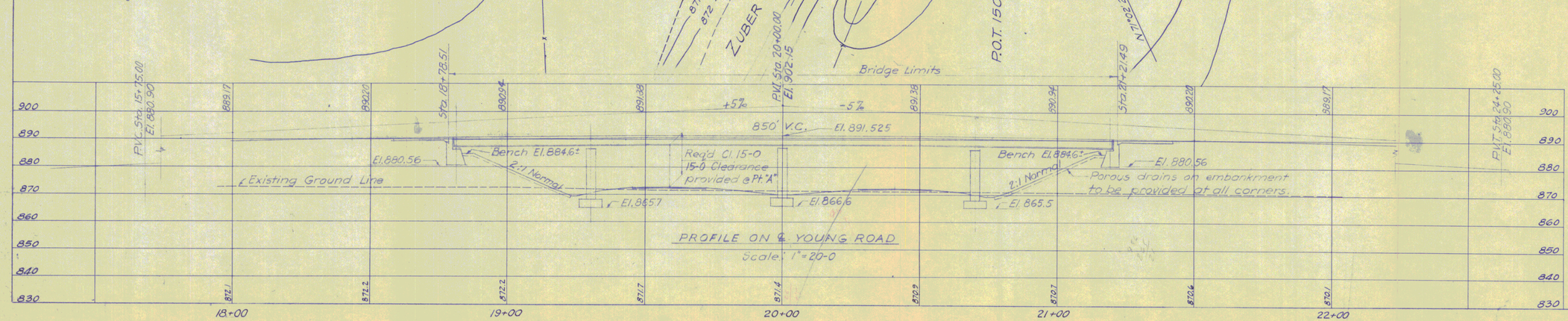
RAG:rm
Enc. 4 Site Plans
cc: N. Mason
C. H. Altvater
B. F. I. File

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		



BENCH MARK
R.R. Spike in side of Power Pole #296492 137 Lt. Sta. 151+82 Elev. 872.43





PROFILE ON ℄ YOUNG ROAD
Scale: 1"=20-0

PROPOSED STRUCTURE

Type: 4 span continuous steel beams with reinforced concrete deck and reinforced concrete substructure.
Spans: 49-0, 70-0, 70-0, 49-0 c. to c.
Roadway: 24-0 with 2-0 safety curbs.
Load Frequency: CF=30(51)
Skew: 25°30' R.F.
Wearing Surface: ½" Monolithic concrete
Approach slabs: AS-1-54 (25' long)
Alignment: Tangent.

Note:
Type and length of piles, if any, to be determined after foundation survey has been completed.

Soundings 1, ~~2, 5, 7, 10~~ 3, 4, 7, 8
All locations accessible from roadway
CORE No. 4 to ~~5~~ line sample at 5' intervals to 50' in 10' into rock.

H. W. LOCHNER AND CO.
CONSULTING ENGINEERS
150 N. WACKER DRIVE
CHICAGO, ILLINOIS

SITE PLAN

BRIDGE NO. FRA-62-0286
U.S. 62 UNDER YOUNG RD.
FRANKLIN COUNTY — U.S. 62
SEC. FRA.-62- — STA. 151+22.84

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Field Survey	Field Survey	HN	HN	KA	10-16-56 KA

JOB #06171

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

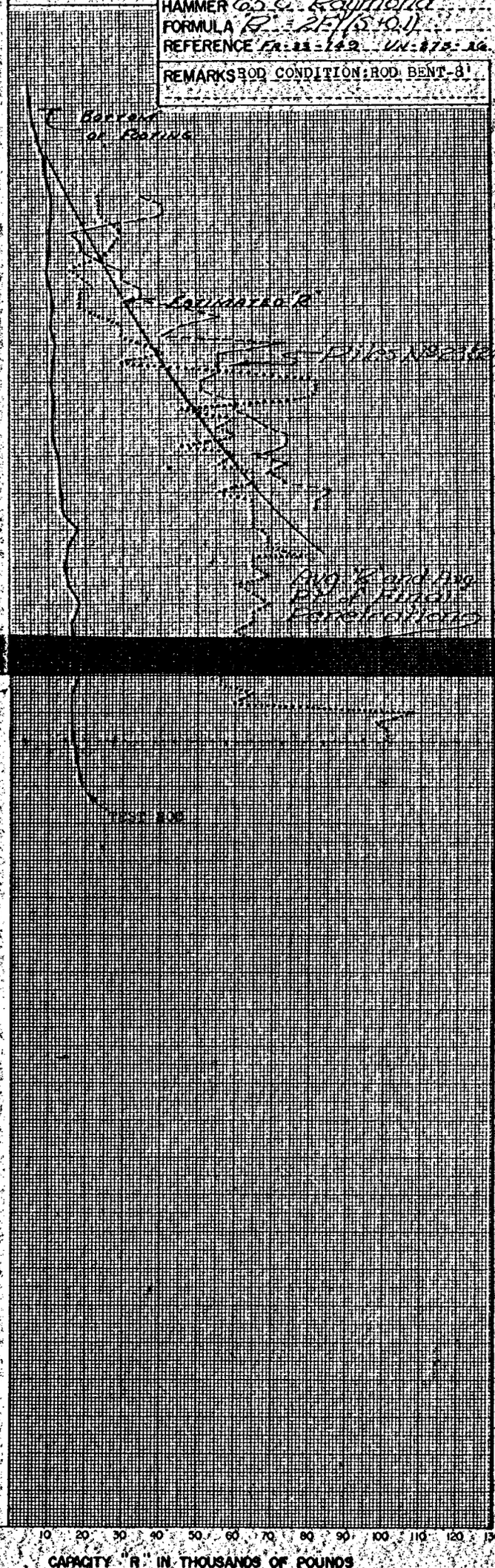
FOUNDATION DATA

CO., RT. NO., SEC. FRA-62-1.42 BRIDGE NO. FRA-62-0286
REAR PIER US 62 UNDER YOUNG RD.
LOCATION TH. 4 STA. 19+36 OFFSET 14' RT FED. NO. F-
GND. EL. 372.1
WATER ELEV. DATE 2-11-52

PILING 12" CAST-IN-PLACE PL.
HAMMER 65 C. Raymond
FORMULA R = 2E/(S+0.1)
REFERENCE FR: 33-142 UN: 875-36

REMARKS ROD CONDITION: ROD BENT-8'

ELEV.	DEPTH	SOIL LOG
372.1	0	
	2	
368.1	4	SANDY SILT
	6	
364.1	8	
	10	
360.1	12	
	14	GRAVELLY SANDY SILT
356.1	16	
	18	
352.1	20	
	22	SILTY GRAVEL
348.1	24	
	26	
344.1	28	SANDY GRAVELLY SILT
	30	
340.1	32	
	34	
	36	GRAVELLY SANDY SILT
332.1	40	
	42	
328.1	44	
	46	
	48	SANDY SILT
	50	
	52	
	54	
	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



10 20 30 40 50 60 70 80 90 100 110 120 130
CAPACITY "R" IN THOUSANDS OF POUNDS

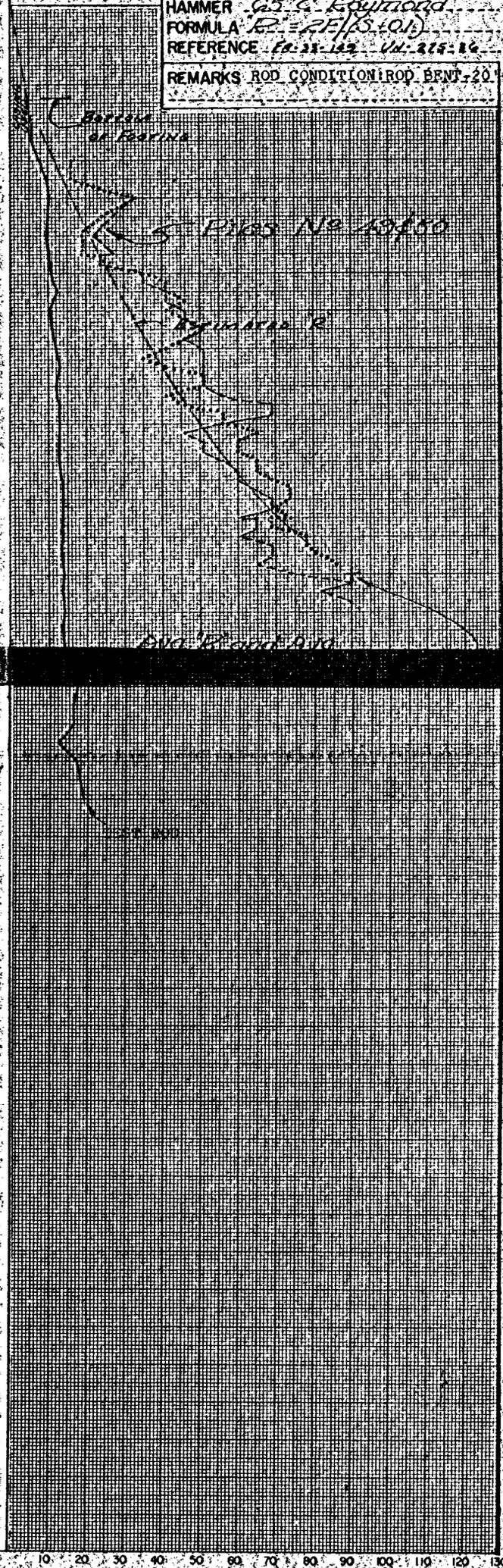
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
TESTING LABORATORY
AND
BUREAU OF BRIDGES

FOUNDATION DATA

CO. RT. NO. SEC. FRA-62-1.42 BRIDGE NO. FRA-62-0286
FORWARD PIER US 62 UNDER YOUNG RD.
LOCATION TH. 17 STA. 20+63 OFFSET 14' LT. FED. NO. F-
GND. EL. 871.5
WATER ELEV. DATE 2-13-52

PILING 12" Cast-in-place R/C
HAMMER Gas C. Raymond
FORMULA R" = 2E/(S+0.1)
REFERENCE Eq. 33-122 Vol. 225-86
REMARKS ROD CONDITION: ROD BENT-20°

ELEV.	DEPTH	SOIL LOG
871.5	0	SILTY CLAY
	2	
867.5	4	
	6	SANDY CLAY
863.5	8	
	10	
859.5	12	SANDY
	14	GRAVELLY
855.5	16	SILT
	18	
851.5	20	SANDY
	22	SILT
847.5	24	
	26	GRAVELLY SANDY
843.5	28	SILT
	30	
839.5	32	SANDY
	34	SILT
ELEV.	DEPTH	SOIL LOG
	36	GRAVEL
831.5	40	SANDY
	42	GRAVELLY SILT
827.5	44	
	46	
	48	GRAVEL
	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. FRA-62-1.42 BRIDGE NO. FRA-62-0286
REAR PIER US 62 UNDER YOUNG RD.

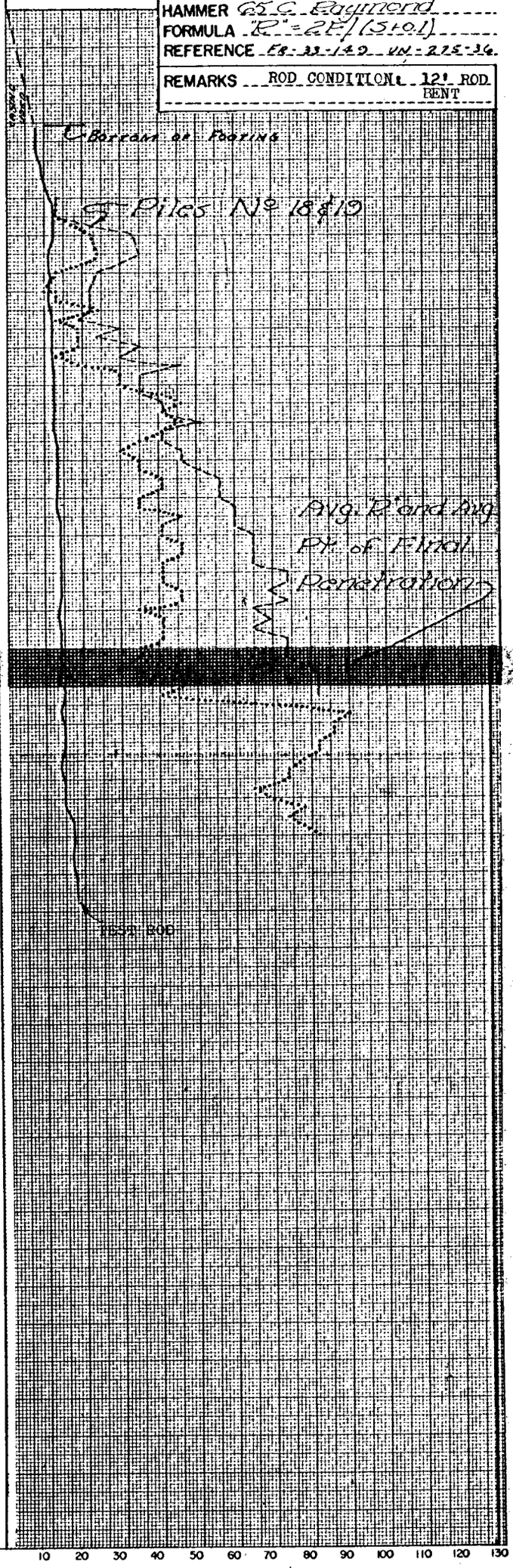
LOCATION TH. 3 STA. 19+23 OFFSET 8' LT. FED. NO. E

GND. EL. 372.9
WATER ELEV. DATE 2-13-57

PILING 12" Cast-in-place R/C
HAMMER 65 C. Raymond
FORMULA "R" = 2E/(S+0.1)
REFERENCE FB-33-149 VN-275-36.

REMARKS ROD CONDITION: 12' ROD RENT

ELEV.	DEPTH	SOIL LOG
372.9	0	
	2	
368.9	4	
	6	
364.9	8	
	10	
360.9	12	
	14	
356.9	16	
	18	
352.9	20	
	22	
348.9	24	
	26	
344.9	28	
	30	
340.9	32	
	34	
ELEV. 346.9	DEPTH 36	LOG
	38	
832.9	40	
	42	
828.9	44	
	46	
824.9	48	
	50	
	52	
	54	
	56	
	58	
	60	
	62	
	64	
	66	
	68	
	70	
	72	
	74	
	76	
	78	
	80	
	82	



CAPACITY "R" IN THOUSANDS OF POUNDS